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# **Trip report**

## **12<sup>th</sup> Street Landfill Site**

### **Wilmington, New Castle Co., DE**

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**12 May 2000**

**Prepared for**  
**U.S. Environmental Protection Agency Region III**  
**Removal Response Section**  
**Philadelphia, PA**



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ORIGINAL

SITE ASSESSMENT TECHNICAL ASSISTANCE

EPA CONTRACT 68-S5-3002

12 May 2000

Mr. Mike Towle (3HS31)  
On-Scene Coordinator  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

TDD No. 0001-90A  
DCN F0000214

Subject: 12<sup>th</sup> Street Landfill Site – Trip Report

Dear Mr. Towle:

Enclosed is the 12<sup>th</sup> Street Landfill Trip Report, summarizing the results of 11-13 January 2000, 14 February 2000, and 22 February 2000 sampling events. Please feel free to contact me at (215) 238-0338, Ext. 245, regarding any aspect of this report.

Very truly yours,

ROY F. WESTON, INC.

(b) (4)

Site Leader

Attachment

cc: TDD File

SATA0303961 TripReport2

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Foster Wheeler Environmental Corporation; Resource Applications, Inc.; C.C. Johnson & Malhotra, P.C.; and  
PRC Environmental Management, Inc.

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# TRIP REPORT

ORIGINAL

12<sup>th</sup> Street Landfill Site  
Wilmington, New Castle Co., Delaware

TDD No. 0001-90A  
Contract No. 68-S5-3002

## 1.0 INTRODUCTION

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On 8 July 1999, the Roy F. Weston, Inc. (WESTON®), Site Assessment Technical Assistance (SATA) team was directed by U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Mike Towle to conduct a removal assessment at the 12<sup>th</sup> Street Landfill Site (Site) located in Wilmington, New Castle County, Delaware. Sampling was conducted between 26 August and 2 September 1999.

On 13 December 1999, OSC Mike Towle tasked SATA to conduct additional sampling (phase A) at the Site to aid in the ecological assessment needed to support the environmental risk assessment. Additional sediment and soil samples were collected at the Site in order to further delineate the extent of contamination on and off site.

On 26 January 2000, OSC Mike Towle again tasked SATA to conduct sampling (phase B) at the Site to aid in the ecological assessment needed to support the environmental risk assessment. Additional sediment samples were collected near the Site in order to further delineate the extent of contamination on and off site. Soil samples were collected for bio-assay analysis. The soil bio-assay analytical results were used to support the EPA's decision to use a specific type of erosion control measure along the stream bank depending on the toxicity results.

This trip report summarizes the findings for the 11-13 January 2000, 14 February 2000, and 22 February 2000 sampling events.

## 2.0 BACKGROUND

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### 2.1 Location

The Site is located in Wilmington, New Castle County, Delaware, as seen in Figure 1, Site Location Map (Reference 1). The approximate site coordinates are 39° 44' 15" north latitude and 75° 31' 35" west longitude (Reference 2).

### 2.2 Site Description

The 12<sup>th</sup> Street Landfill Site is located in an industrial area on 12<sup>th</sup> Street, west of the Interstate-495 12<sup>th</sup> Street ramp, near Gander Hill Prison in Wilmington, New Castle County, Delaware. The Site consists of two land parcels. Parcel 19 (which contains the area of concern) is bordered to the west by Brandywine Creek, to the north by Asset Recovery Services, and to the east and south by state of Delaware owned land (parcel 14). Parcel 14 is bordered to the north by Gander Hill Prison, to the northeast by a Norfolk & Southern railroad yard, to the east and southeast by Norfolk & Southern railroad tracks (Shellpot Branch), and to the west by the Brandywine Creek and parcel 19 (see Figure 2, Site Plan) (Reference 3).





Site Location



**Figure 1**  
**Site Location Map**

Source: USGS 7.5 Minute Topographic Quadrangles  
Wilmington South, DE- NJ, 1993



0 500 1000 Feet



Julius Wemman previously owned parcel 19 until 1926. Between 1926 and 1930 the parcel was owned by the mayor and council of Wilmington. The Wilmington Economic Development Corporation owned the parcel from 1930 to 1987. This parcel is presently owned by the city of Wilmington. George W. Talley previously owned parcel 14 until 1887. Between 1887 and 1971, the parcel was owned by the Philadelphia, Baltimore, and Washington Rail Road Company. This parcel is presently owned by the state of Delaware Department of Transportation. There is no information on what the parcels were utilized for during previous ownerships. Apparently, the area of concern (AOC) was utilized as an unauthorized dump site, in which at least 14 55-gallon drums, rubber hoses, slag, and a light colored ash-like material were disposed of on the property (Reference 3). The company suspected of dumping, Electric Hose and Rubber, operated out of the Brandywine Industrial Complex located adjacent to the Site and ceased operations in 1977 (Reference 4).

The Site is relatively flat, with an average elevation of approximately 10 feet above sea level. The AOC is bounded to the west by the Brandywine Creek, which flows into the Christina River downstream of the Site. The Brandywine Creek has its headwater in the Piedmont Plateau in Pennsylvania, which defines the border between Chester County and Delaware County in Pennsylvania and enters Delaware just north of Beaver Valley. The creek meanders through Wilmington until it joins the Christina River which then joins the Delaware River southeast of Wilmington (Reference 5). The site is located adjacent to the tidally influenced part of the Brandywine Creek. The mean tide in the area is about 2.84 feet, with the mean range between high and low tide of 5.30 feet. Mean Higher High Water (MHHW) in the area is approximately 5.78 feet (Reference 6). The water supply for the Wilmington area is obtained from a surface water intake located 4,800 feet upstream of the Site along the Brandywine Creek (Reference 7).

During the removal assessment, both parcels were covered with thick vegetation consisting of tall phragmites and deciduous trees. Two drum cluster areas were identified. One drum cluster area is located in the northwestern area of parcel 19 adjacent to the Brandywine Creek (northwest side of the AOC). The second drum cluster area is located in the center of parcel 19 (southern side of the AOC).

### 2.3 Geologic Setting

*The Geology of the Wilmington Area, Delaware Geologic Map Series Number 4* geologic map prepared by the Delaware Geologic Survey indicates that the 12<sup>th</sup> Street Landfill Site is located on the border of the Piedmont Physiographic Province and the Atlantic Coastal Plain. The contact, referred to as the fall line, is located approximately 2,000 feet north of the 12<sup>th</sup> Street Landfill Site (Reference 5).

The bedrock at the Site consists of metaigneous and metasedimentary rocks of the Wilmington Complex. The composition is primarily hypersthene-quartz-andesine gneiss with minor amounts of biotite and magnetite. Regolith overlying the bedrock of the area reportedly varies from 0-20 feet (Reference 5).

The unconsolidated aquifer overlying the bedrock generally forms at the base of the regolith, directly above the unweathered bedrock. The aquifer typically acts as an unconfined aquifer. The piedmont aquifers are complex and unpredictable due to the variability of fractures. The rock units of the Piedmont are relatively impermeable, except where weathering or fracturing has taken place (Reference 5).

Due to the variability of the regolith thickness and its limited vertical extent in the vicinity of the site, water yields are expected to be low. Groundwater at the site is tidal influenced. During the removal assessment, water levels in the test pits ranged between approximately 7 to 8 feet below ground surface (bgs) in the central and southern sections of the AOC to approximately 13 feet bgs in the northwestern section of the AOC. One test pit (18 feet deep) in the northern section of the AOC did not encounter any groundwater.

There are no public supply or private home wells that are used for either domestic or potable purposes located within four miles of the Site (Reference 7).

#### 2.4 Climatic Setting

The annual average temperature in Wilmington is 54.6°F. The average monthly temperatures range from 35°F in January to 76°F in July. The average annual precipitation for Wilmington is 44.38 inches. The average monthly precipitation ranges from 2.72 inches in February to 5.34 inches in August. The mean annual lake evaporation for the area of the site is approximately 35 inches. The net annual precipitation for the site is approximately 9.38 inches. A two-year, 24-hour rainfall will produce approximately 3.3 inches of rain (Reference 8).

#### 2.5 Regulatory History

During 14-16 June 1999, Delaware Department of Natural Resources and Environmental Control (DNREC) personnel conducted a site visit as part of a Brownfields Site Assessment Investigation for the eastern side of the Brandywine Creek, along 12<sup>th</sup> Street. During this site visit, DNREC collected surface soil samples on the Site. On 7 July 1999, DNREC updated city officials on their findings (Reference 4).

In July 1999, the EPA was notified by DNREC to investigate what appeared to be drums containing hazardous materials at the Site.

In late August and early September 1999, OSC Towle began conducting a removal assessment of the property to determine if further federal actions were warranted at the 12<sup>th</sup> Street Landfill Site.

### 3.0 SITE ACTIVITIES

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During 11-13 January 2000, additional samples (phase A) were collected at the 12<sup>th</sup> Street Landfill Site. Twenty-eight surface soil samples (excluding duplicates) were collected within the AOC, located on parcel 19, and off the Site. Nine subsurface soil samples (excluding duplicates) were collected within the AOC. Thirty-two sediment samples (excluding duplicates) were collected from the eastern edge (mudflat) of the Brandywine Creek adjacent to the Site. Sample locations are illustrated on Figure 3, Environmental Sample Location Plan. All of the samples collected were analyzed by the DNREC X-ray fluorescence (XRF) instrument. In addition, 20% of the samples (randomly chosen) were analyzed for lead by a Contract Laboratory Program (CLP) for confirmation and 10 randomly chosen samples were analyzed for Target Analyte List (TAL) metals and Target Compound List (TCL) semivolatiles. SATA members Paul Davis, Myles Bartos, and Eric Bailey conducted the field work and sampling. OSC Mike Towle was also on site during the field activities.

On 14 February 2000, additional samples (phase B) were collected at the Site. Five soil samples (0 to 12-inch depth) were collected at the Site for bio-assay analysis. On 22 February 2000 (also phase B), 20 sediment samples were collected from the eastern edge (mudflat) of the Brandywine Creek adjacent to the Site. SATA members Paul Davis and Jason Petracci conducted the field work and sampling. OSC Mike Towle was also on site during the field activities.

#### 3.1 Site Conditions and Observations

Weather conditions during the phase A sampling event on 11 and 12 January were cool, with temperatures between 40°F and 45°F, and partly sunny skies. Weather conditions on 13 January were cool, with temperatures between 40°F and 45°F, and light to moderate rain. Weather conditions during the phase B sampling event on 14 February 2000 were cool, with temperatures between 40°F to 45°F, and light to moderate rain. Weather conditions on 22 February were sunny, cool, with temperatures in the low 50°F, and breezy. The Brandywine Creek was covered with thick ice during the 14 February sampling event, which impeded the sediment sampling activities.

#### 3.2 Sampling Activities

During the first phase of the additional sampling in mid January surface soil sample locations were set up on a grid within the AOC, as outlined in the SATA 12<sup>th</sup> Street Landfill Site Sampling Plan (Reference 9). The grid nodes were set at 100-foot spacings north to south and 50-foot spacings west to east. Twenty surface soil samples were collected within the AOC. Three surface soil samples were collected south of the AOC each 100 feet apart. Two surface soil samples

were collected 200 feet apart south of the previously mentioned locations and three surface soil samples were collected 100 feet east of the AOC. Eight subsurface soil samples were collected within the AOC and one subsurface soil sample was collected east of the AOC. The subsurface soil samples were located at the same locations as the surface soil samples and were randomly picked. Thirty two sediment samples were collected from the eastern edge (mudflat) of the Brandywine Creek adjacent to the Site. The sediment sample locations were collected at spacing intervals of 50 feet along the eastern side of the Creek, during low tide. The sample locations were staggered to eliminate any large gaps between the locations.

On 14 February and 22 February 2000, additional samples (phase B) were collected at the Site. Five soil samples (0 to 12 inches) were collected on and off the Site. The soil samples were collected from previous soil sample locations in the area of concern and collected from the locations that ranged from the lowest to the highest lead results. A sample was also collected and used as a background sample. The soil samples were analyzed for 14-day acute test on earthworms (bio-assay parameter) as well as TAL metals, TCL semivolatiles, and pesticides/polychlorinated biphenyls (PCBs).

Twenty sediment samples were collected from the eastern edge (mudflat) between the creek bank and the riprap line along the eastern side of the Brandywine Creek, adjacent to the Site. The sediment sample locations were located at previous sediment sample locations and biased toward the locations with elevated lead results. A sample was obtained from a depth of 6 inches and 12 inches at each location. The sediment samples were analyzed by the DNREC XRF instrument. In addition to the sample collection, another objective of the sediment sampling was to determine the thickness of the sediment deposits over the mudflat layer.

Laboratory quality assurance and quality control samples were collected during the phase A sampling event as well as one field blank sample and one rinsate blank sample. See Attachment 2, Sample Log Sheets, for sample descriptions.

All samples were handled and packaged in accordance with the sampling plans. The phase A sampling event organic samples were shipped via Federal Express to EnviroSystems, Inc. in Columbia, Maryland for analysis. The phase A inorganic samples were shipped via Federal Express to Southwest Labs of Oklahoma in Broken Arrow, Oklahoma for analysis. The phase B sampling event organic and inorganic samples were shipped via Federal Express to Compuchem Laboratory in Cary, North Carolina. The soil bio-assay samples were shipped via Federal Express to EnviroSystems, Inc. located in Hampton, New Hampshire.

#### 4.0 ANALYTICAL RESULTS

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Table 1, Industrial Soil Risk-Based Concentrations (RBC) Exceedances, summarizes all of the compounds that exceeded industrial soil RBCs and their location for surface and subsurface soil samples (Reference 10).

# Trip Report

Figure 2

(oversized map)

Table 1  
Industrial Soil RBC Exceedances

Chemical	RBC	TS-SS-08	TS-SS-09	TS-SS-10	TS-SS-12	TS-SS-13	TS-SS-15	TS-SS-17
Arsenic	3.8	107	50.2	86.5	23.5	47.7	86.9	105
Chromium	613.2	---	---	759 J	---	---	---	---
Iron	61,000	64,800	---	---	---	77,800 J	98,100 J	112,000 J
Lead	400	6,890 J	33,500 J	9,330 J	7,780 J	3,660	1,690	7,790

Chemical	RBC	TS-SS-18	TS-SS-21	TS-SS-24	TS-SS-34	TS-SS-35	TS-SS-36	TS-SS-37
Arsenic	3.8	93.7	83.6	12.2	73.9	114	18.9	17.4
Chromium	613.2	---	---	---	---	---	---	---
Iron	61,000	100,000 J	102,000 J	---	61,700	75,000	---	---
Lead	400	3,970	2,400	521	7,350	13,400	22,600	566

Chemical	RBC	TS-SB-08	TS-SB-12	TS-BG-02	TS-BG-03	TS-BG-04	TS-FD-02
Arsenic	3.8	60.7	17.7	8.5	5.3	13.8	71.6
Chromium	613.2	---	---	---	---	---	---
Iron	61,000	---	---	---	---	---	82,800
Lead	400	22,300	---	---	---	---	73,000

All units are in mg/kg.  
--- = Not detected.

J = Analyte present. Reported value may not be accurate or precise.  
TS-FD-02 is a field duplicate of sample TS-SS-09.

Arsenic exceeded its RBC in 20 soil samples including one duplicate (Reference 9). There is no RBC for lead in soil. The value of 400 mg/kg was used for comparison purposes and is based on the EPA residential soil screening value. Lead exceeded its screening value in 16 soil samples. Nine soil samples showed levels of iron higher than the RBC for that compound. Levels of chromium were higher than the RBC in one soil sample.

Table 2, Industrial Sediment RBC Exceedances, summarizes all compounds exceeding RBC levels and their locations. Two sediment samples showed levels of arsenic higher than those recommended by industrial RBCs (Reference 10).

Table 2  
Industrial Sediment RBC Exceedances

Chemical	RBC	TS-SED-11	TS-SED-23
Arsenic	38	62.1 J	56.9 J

All units are in mg/kg.  
J = Analyte present. Reported value may not be accurate or precise.

Due to existing boat traffic and recreational use of the Brandywine Creek, all sediment samples were also compared to residential RBCs. Table 3 summarizes locations and levels of concentrations exceeding residential RBCs.

Table 3  
Residential Sediment RBC Exceedances

	RBC	TS-SED-07	TS-SED-10	TS-SED-11	TS-SED-14	TS-SED-15	TS-SED-17
Arsenic	4.3	23	9.5	62	4.6	6.7	9.7

	RBC	TS-SED-18	TS-SED-19	TS-SED-23	TS-SED-27	TS-SED-28	TS-SED-29
Arsenic	4.3	29.2	4.7	56.9	11	9.7	9.2

All units are in mg/kg.

All of the sediment sample locations showed elevated levels of arsenic, exceeding recommended RBCs (Reference 10). None of the surface soil, subsurface soil, or sediment samples exceeded any of the ERG values (Reference 10).

Table 4 summarizes results of the evaluation of toxicity of soil samples to the earthworm (*Eisenia foetida*).

Table 4  
Toxicity Evaluation Summary

Compound	SS-34	SS-35	SS-36	SS-37	BG-04
Mean Survival (%)	72	72	84	85	83

Laboratory control for these samples had a 93% survival rate. This result might suggest that contaminant toxicity is responsible for elevated mortality levels in soil samples. However, laboratory control soil was significantly different from that collected on the site location, and therefore survival rates should be compared with caution. Background sample BG-04 was collected on site and is representative in terms of soil characteristics. When compared to the background sample, survival rates are not significantly different in BG-04 and four soil samples.

Toxicity results can be correlated with analytical data for concentrations of contaminants at each location. It was observed that increasing mortality occurred in locations with elevated levels of arsenic and chromium, while lead and copper, even at high concentration, did not statistically influence survival rates.

## 5.0 FUTURE ACTIONS/RECOMMENDATIONS

Following a review of the analytical results and consultation with EPA's ecological risk assessment experts and WESTON design group, the OSC will approve means of site and river bank stabilization.

## 6.0 REFERENCES

1. Streets 98. Microsoft. 1998.



2. USGS (U. S. Geological Survey). 1987. Wilmington South, DEL-NJ. Topographic Map. DM 5863 II NE-series V821 N4022.5-W7530/7.5.
3. Tigor Title Insurance Company. 1999. Title Search for East 12<sup>th</sup> Street Landfill Site. Parcel numbers 14, 17, and 19. 10 August.
4. Breslin, A. 1999. Delaware Department of Natural Resources and Environmental Control, Wilmington, DE. Telephone conversation with Paul Davis, WESTON SATA. Delran, NJ. 19 November.
5. WIK Associates Inc. 1996. *Remedial Investigation Report Diamond State Salvage*. Wilmington, DE. August.
6. Roy F. Weston, Inc., Site Assessment Technical Assistance. 1999. *Wilmington Drum ATSDR Package*. Delran, NJ.
7. Daily Tide and Current Predictions. 2000. [online]. Tide – Christina River, Delaware, Millside RR Bridge. [www.tides.com][cited 10 May 2000].
8. NOAA (National Oceanic and Atmospheric Administration). 1993. *Climatic Atlas of the United States*. Asheville, NC.
9. Roy F. Weston, Inc. Site Assessment Technical Assistance. 1999. *12<sup>th</sup> Street Landfill Site Sampling Plan*. Delran, NJ. 22 December.
10. U.S. Environmental Protection Agency. 1999. *EPA Region III Risk-Based Concentration Table*. Philadelphia, PA. 7 October.

ATTACHMENTS:    1 – Sample Log Sheets  
                      2 – Sample Data Summary  
                      3 – Photograph Log

Figure 3

(oversized map)

ORIGINAL

ATTACHMENT 1  
SAMPLE LOG SHEETS

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site SAMPLE No.: TS-SS-07  
 PCS No.: 6090 DATE: 1/11/2000  
 WEATHER: Partly sunny, cool, 50°, windy  
 SATA PERSONNEL: (b) (4)

☒ Surface Soil ☐ Subsurface Soil ☐ Waste ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silty - organic wood.</i>
Sample Date and Time: 1/11/2000 @ 1410		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. [Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 16.252202055"</i> West: <i>75° 31' 34.287615106"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>Along pathway near ARS fence line.</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-08

PCS No.: 6090

DATE: 1/ 11/2000

WEATHER: Partly Sunny, cool, 50°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>organic silty (rocks)</i>
Sample Date and Time: 1/11/2000 <i>@ 1415</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Davis</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 15.630108816"</i> West: <i>75° 31' 34.29053335"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>collected along face of bank</i> <i>containers for TAL metals/SVOA</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site SAMPLE No.: TS-SS-08  
 PCS No.: 6090 DATE: 1/11/2000  
 WEATHER: Partly Sunny, windy, cool, 50°  
 SATA PERSONNEL: (b) (4)

☒ Surface Soil ☐ Subsurface Soil ☐ Waste ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>organic silty (roots)</u>
Sample Date and Time: <u>1/11/2000 @ 1415</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul M. Duns</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 15.630108816"</u> West: <u>75° 31' 34.29053335"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> CLP Nos. <u>MCYT57/CXG56</u> Confirmation Sample. <u>collected along face of bank.</u> <del>Background Sample</del>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-09

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>organic (roots)</i> <i>angular pebbly silt</i>
Sample Date and Time: 1/11/2000 <i>@ 1430</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Davis</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 14.700286828"</i> West: <i>75° 31' 33.753570759"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input checked="" type="checkbox"/> Duplicate Sample Taken <i>DNREC (DUP-04)</i>		
<b>Observations and Notes:</b> <i>collected along bank of creek / fill.</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-09PCS No.: 6090DATE: 1/11/2000WEATHER: Partly sunny, cool, 50°, windySATA PERSONNEL: (b) (4)
☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>																
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Organic silt w/ pebbles (roots)</u>																
Sample Date and Time: <u>1/11/2000 @ 1430</u>																		
Sampled by: F <u>(b) (4)</u>																		
Signature(s): <u>Paul D.</u>																		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 14.700286828"</u> West: <u>75° 31' 33.753570759"</u>																
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> Lead only (TAL metals)</td> <td>4° C</td> </tr> </tbody> </table>		Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input type="checkbox"/> DNREC XRF Instrument	4° C	<input checked="" type="checkbox"/> Lead only (TAL metals)	4° C	Sample Location Map:
Analysis	Preservative																	
<input type="checkbox"/> TCL VOAs	4° C																	
<input type="checkbox"/> TCL SVOAs	4° C																	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																	
<input type="checkbox"/> TAL Metals	4° C																	
<input type="checkbox"/> Cyanide	4° C																	
<input type="checkbox"/> DNREC XRF Instrument	4° C																	
<input checked="" type="checkbox"/> Lead only (TAL metals)	4° C																	
FD-02																		
<input checked="" type="checkbox"/> Duplicate Sample Taken <u>Depot</u>																		
<b>Observations and Notes:</b> CLP No. <u>MCY558</u> <u>FD-02 MCY597</u> Confirmation Sample. <u>collected along face of bank / fill.</u>																		

Sample No. \_\_\_\_\_



## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-10

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>organic silt (roots)</i> <i>some quartz pebbles</i>
Sample Date and Time: 1/11/2000 <i>@ 1450</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Diaz</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 13.758278796"</i> West: <i>75° 31' 33.826483454"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>- collected from face of bank/Hill</i> <i>collected - confirmation for metals and SVOA</i>		

Sample No. \_\_\_\_\_

## SATA REGION III

**SITE NAME:** 12th Street Land Fill Site

SAMPLE No.: TS-55-10

PCS No.: 6090

DATE: 1/ 11 /2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>	
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>organic silt (roots)</i> <i>some quartz pebbles</i>	
Sample Date and Time: 1/11/2000 <i>1450</i>			
Sampled by: (b) (4)			
Signature(s): <i>Paul M. Davis</i>			
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 13.758278796"</i> West: <i>75° 31' 33.826483454"</i>	
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only		<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	
<input type="checkbox"/> Duplicate Sample Taken		<b>Sample Location Map:</b>	
<b>Observations and Notes:</b> CLP Nos. <i>MCYJ59/CXG57</i> Confirmation Sample. <i>collected along face of</i> <del>Background Sample</del> <i>bank/fill.</i>			

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-11

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, windy, cool, 50°

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown
Depth Sampled: 0 to 6 inches below ground surface.		Description: silt (organic) roots
Sample Date and Time: 1/11/2000 @ 1510		
Sampled by: (b) (4)		
Signature(s): Paul M. D. S.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 12.854002256" West: 75° 31' 33.713755261"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> collected along bank of fill and creek.		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-55-12

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>whitish - multi colors</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Ashy substance (cinders) wires, hose, and scraps</i>
Sample Date and Time: 1/11/2000 @ 1515		
Sampled by: (b) (4)		
Signature(s): <i>[Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 11.999769786"</i> West: <i>75° 31' 33.524453173"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken <i>PNREC</i>		
<b>Observations and Notes:</b> <i>also collected confirm TAL metals / SVA</i> <i>collected along backside of bank / fill.</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-55-12

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly Sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color:
Depth Sampled: 0 to 6 inches below ground surface.		Description:
Sample Date and Time: 1/11/2000 @ 1515		
Sampled by: (b) (4)		
Signature(s): Paul D		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 11.949769786" West: 75° 31' 33.524453173"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input checked="" type="checkbox"/> Duplicate Sample Taken <del>Original</del>		
<b>Observations and Notes:</b> CLP Nos. MLYJ62/CX658 Confirmation Sample. <del>Background Sample.</del> collected along face of bank/fill		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-55-13

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>5.1 ft (organic) roots</i> <i>Some small rounded pebbles</i>
Sample Date and Time: 1/12/2000 @ 1230		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Qs</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 15.6034 23397"</i> West: <i>75° 31' 33.804730394"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>- confirm TAL metals here</i> <i>- subsurface also collected here</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-13

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Silt (organics) roots</u> <u>Some small rounded pebbles</u>
Sample Date and Time: 1/12/2000 @ 1230		
Sampled by: (b) (4)		
Signature(s): <u>Paul M. Q5</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 15.603423397"</u> West: <u>75° 31' 33.804730394"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input type="checkbox"/> DNREC XRF Instrument	4° C	
<input checked="" type="checkbox"/> Lead only (TAL metals)	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  CLP No. <u>me4J69</u>  Confirmation Sample. <u>- Subsurface also collected here</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-55-14

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40° breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown
Depth Sampled: 0 to 6 inches below ground surface.		Description: Silt (some organics)
Sample Date and Time: 1/12/2000 @ 1240		
Sampled by: (b) (4)		
Signature(s): Paul M. Davis		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 14.670957185" West: 75° 31' 33.50363339"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> - Subsoil sample also here		

Sample No. \_\_\_\_\_



## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-15

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silt - (organics)</i> <i>Small subangular pebbles</i>
Sample Date and Time: 1/12/2000 <i>6 1245</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Davis</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 13.707885779"</i> West: <i>75° 31' 33.255082156"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>- Subsurface also collected here</i> <i>- collected confirm radon levels here</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-15PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40° breezySATA PERSONNEL: (b) (4)☒ Surface Soil ☐ Subsurface Soil ☐ Waste ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description:  <u>Silt - Organics</u>  <u>Small Subangular pebbles</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 1245</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>[Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 13.707885779"</u> West: <u>75° 31' 33.255082156"</u>
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	<u>4° C</u>	
<input type="checkbox"/> TCL SVOAs	<u>4° C</u>	
<input type="checkbox"/> TCL Pesticides/PCBs	<u>4° C</u>	
<input type="checkbox"/> TAL Metals	<u>4° C</u>	
<input type="checkbox"/> Cyanide	<u>4° C</u>	
<input type="checkbox"/> DNREC XRF Instrument	<u>4° C</u>	
<input checked="" type="checkbox"/> Lead only <u>(TAL metals)</u>	<u>4° C</u>	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  CLP No. <u>MCY 570</u>  Confirmation Sample. <u>Subsurface also used</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-16

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color:
Depth Sampled: 0 to 6 inches below ground surface.		Description:
Sample Date and Time: 1/12/2000 @ 1255		
Sampled by: P (b) (4)		
Signature(s): <i>Paul M. D.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 12.720240405" West: 75° 31' 33.04677756"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Subsurface also here.		

Sample No. \_\_\_\_\_

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site SAMPLE No.: TS-55-17  
 PCS No.: 6090 DATE: 1/12/2000  
 WEATHER: Partly sunny, cool, 40°, breezy  
 SATA PERSONNEL: (b) (4)

☒ Surface Soil ☐ Subsurface Soil ☐ Waste ☐ Other

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown
Depth Sampled: 0 to 6 inches below ground surface.		Description: Silt - some mottling (gray) Some subangular pebbles.
Sample Date and Time: 1/12/2000 @ 1300		
Sampled by: (b) (4)		
Signature(s): Paul M. Davis		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 11.996036953" West: 75° 31' 32.804055745"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> confirm for TAL metals here.		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-17PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40°, breezySATA PERSONNEL: (b) (4)
☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Silt - some mottling (gray)</u> <u>some subangular pebbles</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 1300</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>[Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 11.996036953"</u> West: <u>75° 31' 32.804055745"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	<u>4° C</u>	
<input type="checkbox"/> TCL SVOAs	<u>4° C</u>	
<input type="checkbox"/> TCL Pesticides/PCBs	<u>4° C</u>	
<input type="checkbox"/> TAL Metals	<u>4° C</u>	
<input type="checkbox"/> Cyanide	<u>4° C</u>	
<input type="checkbox"/> DNREC XRF Instrument	<u>4° C</u>	
<input checked="" type="checkbox"/> Lead only ( <u>TAL metals</u> )	<u>4° C</u>	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  CLP No. <u>MCYJ71</u>  Confirmation Sample.		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-18

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Sandy silt (organics/roots)</i> <i>Small subrounded quartz pebbles</i>
Sample Date and Time: 1/12/2000 @ 1310		
Sampled by: (b) (4)		
Signature(s): <i>Pamela De</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 12.748023117"</i> West: <i>75° 31' 32.244612805"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	<b>Sample Location Map:</b>
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  <i>TAL metals here</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-18PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40°, breezySATA PERSONNEL: (b) (4)
☒ Surface Soil  
 ☐ Subsurface Soil  
 ☐ Waste  
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>																
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Sandy silt</u> <u>(organic roots)</u> <u>Small subrounded quartz pebbles</u>																
Sample Date and Time: <u>1/12/2000</u> <u>@ 1310</u>																		
Sampled by: <u>(b) (4)</u>																		
Signature(s): <u>Paul D. S.</u>																		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 12.748023117"</u> West: <u>75° 31' 32.244612805"</u>																
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> Lead only (<u>TAL metals</u>)</td> <td>4° C</td> </tr> </tbody> </table>		Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input type="checkbox"/> DNREC XRF Instrument	4° C	<input checked="" type="checkbox"/> Lead only ( <u>TAL metals</u> )	4° C	Sample Location Map:
Analysis	Preservative																	
<input type="checkbox"/> TCL VOAs	4° C																	
<input type="checkbox"/> TCL SVOAs	4° C																	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																	
<input type="checkbox"/> TAL Metals	4° C																	
<input type="checkbox"/> Cyanide	4° C																	
<input type="checkbox"/> DNREC XRF Instrument	4° C																	
<input checked="" type="checkbox"/> Lead only ( <u>TAL metals</u> )	4° C																	
<input type="checkbox"/> Duplicate Sample Taken																		
<b>Observations and Notes:</b>  CLP No. <u>MCYT72</u>  Confirmation Sample.																		

Sample No. \_\_\_\_\_

ORIGINAL

SOIL SAMPLE LOG SHEET	SATA REGION III
-----------------------	-----------------

SITE NAME: <u>12th Street Land Fill Site</u>	SAMPLE No.: <u>TS-SS-19</u>
PCS No.: <u>6090</u>	DATE: <u>1/12/2000</u>
WEATHER: <u>Partly Sunny, Cool, 40°, breezy</u>	
SATA PERSONNEL: <u>(b) (4)</u>	

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground surface. Sample Date and Time: <u>1/12/2000 @ 1320</u> Sampled by: <u>(b) (4)</u> Signature(s): <u>Paul M. [Signature]</u>	Color: <u>Dark brown</u> Description: <u>Soil w/ organics.</u>																
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: <u>39° 44' 12.700467646"</u> West: <u>75° 31' 32.536878685"</u>																
<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Analysis</th> <th style="text-align: left;">Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C	<b>Sample Location Map:</b>           
Analysis	Preservative																
<input type="checkbox"/> TCL VOAs	4° C																
<input type="checkbox"/> TCL SVOAs	4° C																
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																
<input type="checkbox"/> TAL Metals	4° C																
<input type="checkbox"/> Cyanide	4° C																
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																
<input type="checkbox"/> Lead only	4° C																
<input type="checkbox"/> Duplicate Sample Taken <b>Observations and Notes:</b>  <u>- Subsurface also here.</u>																	

Sample No. \_\_\_\_\_



## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-55-20

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown
Depth Sampled: 0 to 6 inches below ground surface.		Description: Silt Small rounded pebbles
Sample Date and Time: 1/12/2000 (1325)		
Sampled by: (b) (4)		
Signature(s): Paul M. D.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 13.668580738" West: 75° 31' 32.819326947"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
Duplicate Sample Taken (DNREC 0114) Dup -07		
Observations and Notes: FD-07		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-21PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40°, breezySATA PERSONNEL: (b) (4)
☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Silt (organic/roots)</u>
Sample Date and Time: <u>1/12/2000 @ 1330</u>		
Sampled by: P <u>(b) (4)</u>		
Signature(s): <u>Paul [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 14.579346971"</u> West: <u>75° 31' 32.934357717"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <u>- Subsurface also here.</u> <u>- collected confirm TAL metals here</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-21PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40°, breezySATA PERSONNEL: (b) (4)
☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Silt (organic/roots)</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 1330</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 14.579346971"</u> West: <u>75° 31' 32.934357717"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input checked="" type="checkbox"/> Lead only <u>(TAL metals)</u>	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> CLP No. <u>MCYJ73</u> Confirmation Sample. <u>Subsurface also hard</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-22PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, Cool, 40°, breezySATA PERSONNEL: (b) (4)
☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Silt (organics/roots)</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 1340</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 15.393300037"</u> West: <u>75° 31' 33.487450188"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <u>Subsurface also here.</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-23

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown
Depth Sampled: 0 to 6 inches below ground surface.		Description: Silt - (organic/roots) Small subangular pebbles
Sample Date and Time: 1/12/2000 @ 1345		
Sampled by: (b) (4)		
Signature(s): Paul M. De		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 15.503370317" West: 75° 31' 33.10426818"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
Observations and Notes:		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SS-24

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40° breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silt w/ organics (roots)</i>
Sample Date and Time: 1/12/2000 @ 1350		
Sampled by: (b) (4)		
Signature(s): <i>Paul D</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 14.654536436"</i> West: <i>75° 31' 32.630524262"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>collected confirm the metals here</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-24PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40°, breezySATA PERSONNEL: (b) (4)
☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.

Color:

Dark brown

Depth Sampled: 0 to 6 inches below ground surface.

Description:

Soil w/ organics (roots)Sample Date and Time: 1/12/2000  
@ 1350Sampled by: (b) (4)

Signature(s):

Paul [Signature]

## Sample Type

- ☒ Low Concentration  
☐ High Concentration  
☒ Grab  
☐ 5-Point Composite

## GPS Coordinates:

North: 39° 44' 14.654536436"West: 75° 31' 32.630524262"

## Analysis

## Preservative

- |   |      |
|---|------|
| <input type="checkbox"/> TCL VOAs                                   | 4° C |
| <input type="checkbox"/> TCL SVOAs                                  | 4° C |
| <input type="checkbox"/> TCL Pesticides/PCBs                        | 4° C |
| <input type="checkbox"/> TAL Metals                                 | 4° C |
| <input type="checkbox"/> Cyanide                                    | 4° C |
| <input type="checkbox"/> DNREC XRF Instrument                       | 4° C |
| <input checked="" type="checkbox"/> Lead only ( <u>TAL metals</u> ) | 4° C |

## Sample Location Map:

☐ Duplicate Sample Taken

## Observations and Notes:

CLP No. MCY574

Confirmation Sample.

Collected Confirmation TAL metals W.E.

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-25

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silt (organics)</i>
Sample Date and Time: 1/12/2000 <i>@ 1400</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul Andrews</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 13.709159898"</i> West: <i>75° 31' 32.452653979"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
Observations and Notes:		

Sample No. \_\_\_\_\_



## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: 75-55-26PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, Cool, 40°, breezySATA PERSONNEL: (b) (4)
☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>soil (organic) roots</u> <u>small subangular pebbles</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 1405</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul m. AS</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 12.381368714"</u> West: <u>75° 31' 31.444487585"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  <u>(on grassy knoll)</u>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-27

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silt (organic roots)</i>
Sample Date and Time: 1/12/2000 @ 1410		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Quesada</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 14.311332019"</i> West: <i>75° 31' 31.649362326"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>           		

Sample No. \_\_\_\_\_

701212121

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-55-28

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil ☐ Subsurface Soil ☐ Waste ☐ Other

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silt (organics/roots/humus)</i>
Sample Date and Time: 1/12/2000 <i>@ 1420</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul D.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 16.33301093"</i> West: <i>75° 31' 32.738141502"</i>
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>- Subsurface also used.</i> <i>- collected Contam. TAL metals</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-55-28

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 42°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silt (organics/roots/humus)</i>
Sample Date and Time: 1/12/2000 @ 1420		
Sampled by: (b) (4)		
Signature(s): <i>Paul DeG</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 16.33301093"</i> West: <i>75° 31' 32.738141502"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> <del>TCL SVOAs</del> <i>PMD</i> <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> <del>TAL Metals</del> <i>PMD</i> <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input checked="" type="checkbox"/> Lead only <i>(TAL metals)</i>	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  CLP Nos. _____  Confirmation Sample. <i>- Subsurface also have Background Sample.</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-29

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 40°, breezy

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Light gray</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Soil</i>
Sample Date and Time: 1/12/2000 @ 1435		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. [Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 10.958229651"</i> West: <i>75° 31' 33.203723445"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>collected along bank/fill</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-30

PCS No.: 6090

DATE: 1/13/2000WEATHER: cloudy, light rain, 45°

SATA PERSONNEL: (b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Gray - with organic L</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Silt (some organics)</u>
Sample Date and Time: <u>1/13/2000</u> <u>@ 0755</u>		
Sampled by: (b) (4)		
Signature(s): <u>Paul D S</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 09.868051313"</u> West: <u>75° 31' 33.013727622"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <u>- Backfill sample</u>		

Sample No. \_\_\_\_\_

ORIGINAL

<b>SOIL SAMPLE LOG SHEET</b>	<b>SATA REGION III</b>
------------------------------	------------------------

SITE NAME: <u>12th Street Land Fill Site</u>	SAMPLE No.: <u>TS55-31</u>
PCS No.: <u>6090</u>	DATE: <u>1/13/2000</u>
WEATHER: <u>cloudy, light rain, 45°</u>	
SATA PERSONNEL: <u>(b) (4)</u>	

☒ Surface Soil  
 ☐ Subsurface Soil  
 ☐ Waste  
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground surface. Sample Date and Time: <u>1/13/2000 @ 0800</u> Sampled by: <u>(b) (4)</u> Signature(s): <u>Paul M. Di...</u>	Color: <u>Dark brown</u> Description: <u>Soil (organics/roots)</u>																				
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: <u>39° 44' 08.927234378"</u> West: <u>75° 31' 33.294160612"</u>																				
<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Analysis</th> <th style="text-align: left;">Preservative</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/> TCL VOAs</td><td>4° C</td></tr> <tr><td><input type="checkbox"/> TCL SVOAs</td><td>4° C</td></tr> <tr><td><input type="checkbox"/> TCL Pesticides/PCBs</td><td>4° C</td></tr> <tr><td><input type="checkbox"/> TAL Metals</td><td>4° C</td></tr> <tr><td><input type="checkbox"/> Cyanide</td><td>4° C</td></tr> <tr><td><input checked="" type="checkbox"/> DNREC XRF Instrument</td><td>4° C</td></tr> <tr><td><input type="checkbox"/> Lead only</td><td>4° C</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C					<b>Sample Location Map:</b>           
Analysis	Preservative																				
<input type="checkbox"/> TCL VOAs	4° C																				
<input type="checkbox"/> TCL SVOAs	4° C																				
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																				
<input type="checkbox"/> TAL Metals	4° C																				
<input type="checkbox"/> Cyanide	4° C																				
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																				
<input type="checkbox"/> Lead only	4° C																				
<input type="checkbox"/> Duplicate Sample Taken <b>Observations and Notes:</b> <u>- bank/fill sample</u>																					

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-32

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, light rain 45°

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Gray
Depth Sampled: 0 to 6 inches below ground surface.		Description:  Silt (ushy?)
Sample Date and Time: 1/13/2000 @ 0805		
Sampled by: (b) (4)		
Signature(s): Paul M. Doe		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 06.870428891" West: 75° 31' 33.520739201"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> - Bank/fill sample		

Sample No. \_\_\_\_\_



ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-33

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, light rain, 45°

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Gray to light-brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silty (flakey) (ashy?)</i>
Sample Date and Time: 1/13/2000 <i>P 0810</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. [Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 05.032552055" West: 75° 31' 34.363904944"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
Observations and Notes:		

Sample No.: \_\_\_\_\_

ORIGINAL

# SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site SAMPLE No.: TS-SS-34  
 PCS No.: 6090 DATE: 2/14/2000  
 WEATHER: cloudy, light intermittent rain 45°-55°  
 SATA PERSONNEL: (b) (4)

☒ Surface Soil ☐ Subsurface Soil ☐ Waste ☐ Other \_\_\_\_\_

Sample Method: Hand shovel, disposable plastic trowel, and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 12 inches below ground surface.		Description: <u>Silt (some organics)</u>
Sample Date and Time: 2/14/2000 at 1110 (b) (4)		
Sampled by: (b) (4)		
Signature(s): <u>Paul M. Davis</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 14.670957185"</u> West: <u>75° 31' 33.50363339"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input checked="" type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only <input checked="" type="checkbox"/> Bio-assay (14-day acute test on earthworms) <input type="checkbox"/> Duplicate Sample Taken	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C N/A	<b>Observations and Notes:</b> <u>Same location as TS-SS-14</u>
<b>Sample Location Map:</b> See Sample Location Map in Trip Report.		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-35PCS No.: 6090DATE: 2/14/2000WEATHER: cloudy, light intermittent rain, 45°-55°

SATA PERSONNEL: (b) (4)

(b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Hand shovel, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>																		
Depth Sampled: 0 to 12 inches below ground surface.		Description:  <i>Silt with organics and angular pebbles.</i>																		
Sample Date and Time: <i>2/14/2000 at 1120 Jason DeStefano</i>																				
Sampled by: (b) (4)																				
Signature(s): <i>Paul M. DeStefano</i>																				
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 14.700286828"</i> West: <i>75° 31' 33.753570759"</i>																		
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> Bio-assay (14-day acute test on earthworms)</td> <td>N/A</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Duplicate Sample Taken</td> </tr> </tbody> </table>		Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input checked="" type="checkbox"/> TCL SVOAs	4° C	<input checked="" type="checkbox"/> TCL Pesticides/PCBs	4° C	<input checked="" type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C	<input checked="" type="checkbox"/> Bio-assay (14-day acute test on earthworms)	N/A	<input type="checkbox"/> Duplicate Sample Taken		<b>Observations and Notes:</b>  <i>Same location as TS-SS-09</i>
Analysis	Preservative																			
<input type="checkbox"/> TCL VOAs	4° C																			
<input checked="" type="checkbox"/> TCL SVOAs	4° C																			
<input checked="" type="checkbox"/> TCL Pesticides/PCBs	4° C																			
<input checked="" type="checkbox"/> TAL Metals	4° C																			
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<input type="checkbox"/> Lead only	4° C																			
<input checked="" type="checkbox"/> Bio-assay (14-day acute test on earthworms)	N/A																			
<input type="checkbox"/> Duplicate Sample Taken																				
<b>Sample Location Map:</b>  See Sample Location Map in Trip Report.																				

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-36PCS No.: 6090DATE: 2/14/2000WEATHER: Cloudy, light intermittent rain, 45°-55°

SATA PERSONNEL: (b) (4)

(b) (4)

☒ Surface Soil  
 ☐ Subsurface Soil  
 ☐ Waste  
 ☐ Other \_\_\_\_\_

Sample Method: Hand shovel, disposable plastic trowel, and disposable aluminum pan.		Color: <u>White (multi colors)</u>
Depth Sampled: 0 to 12 inches below ground surface.		Description: <u>Ashy substance.</u> <u>wire, hose, and other scrap pieces.</u>
Sample Date and Time: <u>2/14/2000 at 1130</u> (b) (4)		
Sampled by: (b) (4)		
Signature(s): <u>Paul [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 11.999769786"</u> West: <u>75° 31' 33.524453173"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs 4° C <input checked="" type="checkbox"/> TCL SVOAs 4° C <input checked="" type="checkbox"/> TCL Pesticides/PCBs 4° C <input checked="" type="checkbox"/> TAL Metals 4° C <input type="checkbox"/> DNREC XRF Instrument 4° C <input type="checkbox"/> Lead only 4° C <input checked="" type="checkbox"/> Bio-assay (14-day acute test on earthworms) N/A <input type="checkbox"/> Duplicate Sample Taken	<b>Preservative</b>	<b>Observations and Notes:</b> <u>Same location as TS-SS-12</u>
<b>Sample Location Map:</b> See Sample Location Map in Trip Report.		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-37PCS No.: 6090DATE: 2/14/2000WEATHER: cloudy, light intermittent rain, 45°-55°SATA PERSONNEL: (b) (4)(b) (4)
☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Hand shovel, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 12 inches below ground surface.		Description: <i>Silt with organics (roots/humus)</i>
Sample Date and Time: <i>2/14/2000 at 1200</i>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <i>Paul Davis</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 16.33301093"</i> West: <i>75° 31' 32.738141502"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input checked="" type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only <input checked="" type="checkbox"/> Bio-assay (14-day acute test on earthworms) <input type="checkbox"/> Duplicate Sample Taken	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C N/A	<b>Observations and Notes:</b> <i>Same location as TS-SS-28</i>
<b>Sample Location Map:</b> See Sample Location Map in Trip Report.		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SB-04

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, cool, light rain, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil 
 ☒ Subsurface Soil 
 ☐ Waste 
 ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown to black</i>
Depth Sampled: 3-3.5 feet below ground surface.		Description: <i>Silty (some clay nodules) traces of ash &amp; metal pcs. Small sub angular pebbles and sub rounded pebbles</i>
Sample Date and Time: 1/13/2000 @ 0854		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Q...</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 12.720240405" West: 75° 31' 33.04677756"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>- collected Contam TAL/SOA here</i> <i>- same location as 75-SB-16</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SB-04

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, rain, cool, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil
 ☒ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: Dark brown to black
Depth Sampled: 3-3.5 feet below ground surface.		Description: Silty (some clay nodes) traces of ash & metal pcs. small subangular pebbles and subrounded pebbles
Sample Date and Time: 1/13/2000 (@ 0850)		
Sampled by: (b) (4)		
Signature(s): Dawn M. [Signature]		GPS Coordinates: North: 39° 44' 12.720240405" West: 75° 31' 33.04677756"
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input checked="" type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input checked="" type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>		
CLP Nos. MCYT77/CX679		
Confirmation Sample.		
Same location as TS-SB-16		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-05

PCS No.: 6090

DATE: 1/13/2000

WEATHER: Cloudy, light rain, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 2.5-3.0 feet below ground surface.		Description: <i>Silt w/ silty clay nodules Small angular / sub angular pebbles</i>
Sample Date and Time: 1/13/2000 <i>(b) 0915</i>		
Sampled by: (b) (4)		
Signature(s): <i>James M. De</i>		GPS Coordinates: North: 39° 44' 13.707885779" West: 75° 31' 33.255082156"
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  <i>- collected confirm. Metals for</i> <i>- same location as TS-SS-15</i>		

Sample No. \_\_\_\_\_



ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-05

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, cool, light rain, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: <i>2.5-3.0</i> feet below ground surface.		Description: <i>Silt with silt/clay nodules</i> <i>Small angular/subangular pebbles</i>
Sample Date and Time: 1/13/2000 <i>@ 0915</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. [Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 13.707885779"</i> West: <i>75° 31' 33.255082156"</i>
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input type="checkbox"/> DNREC XRF Instrument	4° C	
<input checked="" type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  CLP No. <i>MLYJ75</i>  Confirmation Sample. <i>Same location as TS-SS-15</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SB-06

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, light rain, cool, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil
 ☒ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: Dark brown
Depth Sampled: 3.0-3.5 feet below ground surface. (retail)		Description: Silt Small-medium pebbles Some metallic pieces
Sample Date and Time: 1/13/2000 @ 0945		
Sampled by: (b) (4)		
Signature(s): Paul M. Quid		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 14.670957185" West: 75° 31' 33.50363339"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> - Same location as TB-SB-14		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-07

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, light rain, cool, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: <i>2.5-3.0</i> feet below ground surface. <i>(12 ft soil)</i>		Description: <i>Silt with brick pieces Some metallic pieces.</i>
Sample Date and Time: 1/13/2000 <i>@ 0950</i>		
Sampled by: (b) (4)		
Signature(s): <i>Pamela Davis</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 15.603423397"</i> West: <i>75° 31' 33.804730394"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  <i>- Same location as TS-SS-13</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-5B-08

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, light rain, cool, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: <i>25-30</i> feet below ground surface.		Description: <i>Silty Some shell fragments metallic pieces.</i>
Sample Date and Time: 1/13/2000 @ 1015		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. Davis</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 12.700467646"</i> West: <i>75° 31' 32.536878685"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>- Same location as 75-55-19</i> <i>- collected confirm TAL/SVOA work</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SB-08

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, light rain, cool, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil
 ☒ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: <i>2.5-3.0</i> feet below ground surface.		Description: <i>Silty some shell fragments metallic pieces.</i>
Sample Date and Time: 1/13/2000 <i>@ 10:15</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. De</i>		GPS Coordinates: North: <i>39° 44' 12.700467646"</i> West: <i>75° 31' 32.536878685"</i>
Sample Type <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		
Analysis	Preservative	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input checked="" type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input checked="" type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
Observations and Notes:		
CLP Nos. <i>MLY578 / CXG80</i>		
Confirmation Sample.		
<i>Same location as TS-SS-19</i>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SB-07PCS No.: 6090DATE: 1/13/2000WEATHER: cloudy, cool, light rain 45°SATA PERSONNEL: (b) (4)
☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <u>Dark Brown</u>
Depth Sampled: <u>3.0-3.5</u> feet below ground surface.		Description: <u>Clayey silt (fill)</u> <u>green/white/orange flakes</u>
Sample Date and Time: <u>1/13/2000</u> <u>@ 1005</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul M. Davis</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 13.668580738"</u> West: <u>75° 31' 32.819326947"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <u>- same location as TS-SB-20</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-10

PCS No.: 6090

DATE: 1/13/2000

WEATHER: Cloudy, light rain cool, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: <i>3.0-3.5</i> feet below ground surface.		Description: <i>Silt traces of ash and brick Small angular/sub angular pebbles</i>
Sample Date and Time: 1/13/2000 <i>@ 1040</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul D...</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 14.579346971"</i> West: <i>75° 31' 32.934357717"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  <i>Same location as TS-SS-21</i>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SS-11

PCS No.: 6090

DATE: 1/13/2000

WEATHER: cloudy, 1694 + rain, 1001, 45°

SATA PERSONNEL: (b) (4)

☐ Surface Soil 
 ☒ Subsurface Soil 
 ☐ Waste 
 ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: <i>3.0-3.5</i> feet below ground surface.		Description: <i>Silt some colored pieces (purple/white) some brick pieces.</i>
Sample Date and Time: 1/13/2000 @ <i>1030</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. [Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 15.393300037"</i> West: <i>75° 31' 33.487450188"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <i>- Same location as TS-SS-22</i>		

Sample No. \_\_\_\_\_



ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-12PCS No.: 6090DATE: 1/13/2000WEATHER: cloudy, cool, light rain, 45°SATA PERSONNEL: (b) (4)
☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <u>Brown</u>
Depth Sampled: <u>2.5-3.0</u> feet below ground surface. <u>refused</u>		Description: <u>Silty fine grained sand</u>
Sample Date and Time: <u>1/13/2000</u> <u>@ 1045</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>[Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 16.33301093"</u> West: <u>75° 31' 32.738141502"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u>	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <u>- Same location as TS-SS-28.</u> <u>- collected container TAL metals here</u>		

Sample No. \_\_\_\_\_

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SS-12PCS No.: 6090DATE: 1/13/2000WEATHER: cloudy, cool, light rain, 45°SATA PERSONNEL: (b) (4)
☐ Surface Soil 
 ☒ Subsurface Soil 
 ☐ Waste 
 ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <u>Brown</u>
Depth Sampled: <u>2.5-3.0</u> feet below ground surface.		Description: <u>Silty fine grained sand</u>
Sample Date and Time: <u>1/13/2000</u> <u>@ 1045</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>[Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 16.33301093"</u> West: <u>75° 31' 32.738141502"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input checked="" type="checkbox"/> Lead only	<b>Preservative</b> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u>	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken <u>(CLP only)</u>		
<b>Observations and Notes:</b>  CLP No. <u>MCYT 76</u>  Confirmation Sample. <u>same location as TS-SS-28</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: B-BG-02PCS No.: 6090DATE: 1/13/2000WEATHER: cloudy, cool, light rain, 40°SATA PERSONNEL: (b) (4)
☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Brown</u>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <u>Silty fine grained sand</u>
Sample Date and Time: <u>1/13/2000 @ 1255</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul D. [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: West:
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> <u>confirmation sample</u> <u>CLP #'s MCYJ94/CX683</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-BG-01

PCS No.: 6090

DATE: 1/13/2000

WEATHER: Cloudy, light rain, cool, 45°

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Brown
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Micaceous silt clay loam
Sample Date and Time: 1/13/2000 Q 1250		
Sampled by: (b) (4)		
Signature(s): Paula. Ant		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: N/A West: N/A
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  CL		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-BG-01

PCS No.: 6090

DATE: 1/13/2000

WEATHER: Cloudy, light rain, cool, 45°

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Brown
Depth Sampled: 0 to 6 inches below creek bed surface.		Description: micaceous silt clay loam
Sample Date and Time: 1/13/2000 @ 1250		
Sampled by: P(b) (4)		
Sample Type <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		GPS Coordinates: North: N/A West: N/A
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  CLP No.: MLYJ93 / CXG82  Background Sample.		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-B6-02

PCS No.: 6090

DATE: 1/13/2000

WEATHER: Cloudy, cool, light rain, 40°

SATA PERSONNEL: (b) (4)

☒ Surface Soil
 ☐ Subsurface Soil
 ☐ Waste
 ☐ Other \_\_\_\_\_

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Brown</i>
Depth Sampled: 0 to 6 inches below ground surface.		Description: <i>Silty fine grained sand.</i>
Sample Date and Time: 1/13/2000 <i>@ 1255</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul m. Owens</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b>  North:  West:
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
Observations and Notes:		

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-Sea-01B

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Grayish-black</i>
Depth Sampled: <i>11-12</i> inches below creek bed surface.		Description: <i>Silty clay.</i>
Sample Date and Time: 2/22/2000 at <i>0825</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul [Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 16.088"</i> West: <i>75° 31' 34.681"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-86-03PCS No.: 6090DATE: 1/13/2000WEATHER: Cloudy, light rain, cool, 40°SATA PERSONNEL: (b) (4)
☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <i>light to med. brown</i>
Depth Sampled: <i>2-2.5</i> feet below ground surface.		Description: <i>fine grained sand (some organics)</i>
Sample Date and Time: <i>1/13/2000</i> <i>@ 1300</i>		
Sampled by: <i>(b) (4)</i>		
Signature(s): <i>Paul m. D...</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b>  North:  West:
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
Observations and Notes:		

Sample No. \_\_\_\_\_



ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: BTS-B6-03

PCS No.: 6090

DATE: 1/13/2000WEATHER: Cloudy, light rain, cool, 40°SATA PERSONNEL: (b) (4)
☐ Surface Soil    ☒ Subsurface Soil    ☐ Waste    ☐ Other \_\_\_\_\_

Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.		Color: <u>Light to medium brown</u>
Depth Sampled: <u>2.0-2.5</u> feet below ground surface.		Description: <u>fine grained sand (some organics)</u>
Sample Date and Time: <u>1/13/2000 @ 1300</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul W. Davis</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: West:
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> CLP Nos. <u>ML4595/CX684</u> Confirmation Sample.		

Sample No. \_\_\_\_\_

ORIGINAL

## SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-B6-04

PCS No.: 6090

DATE: 2/14/2000

WEATHER: Cloudy, light intermittent rain, 45°-55°

SATA PERSONNEL: (b) (4)

(b) (4)

☒ Surface Soil   ☐ Subsurface Soil   ☐ Waste   ☐ Other \_\_\_\_\_

Sample Method: Hand shovel, disposable plastic trowel, and disposable aluminum pan.		Color:  Gray
Depth Sampled: 0 to 12 inches below ground surface.		Description:  Silt  (ash?)
Sample Date and Time: 2/14/2000 at 1145 (b) (4)		
Sampled by: (b) (4)		
Signature(s): Paul [Signature]		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 06.870428891" West: 75° 31' 33.520739201"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input checked="" type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only <input checked="" type="checkbox"/> Bio-assay (14-day acute test on earthworms) <input type="checkbox"/> Duplicate Sample Taken	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C N/A	<b>Observations and Notes:</b>  (Same location as 75-SS-32)
<b>Sample Location Map:</b>  See Sample Location Map in Trip Report.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-03

PCS No.: 6090

DATE: 1/ /2000

WEATHER: Partly Sunny, Cool, 50° breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: silt some organic pebbly
Sample Date and Time: 1/11/2000 @ 0950		
Sampled by: (b) (4)		
Signature(s): Paul M. D.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 17.2364749" West: 75° 31' 35.386770638"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	<b>Sample Location Map:</b> Bulk head
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  Near bank - concrete bulk head.		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: T3-SED-04

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, 50° windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Sandy silt
Sample Date and Time: 1/11/2000 12 0956		
Sampled by: (b) (4)		
Signature(s): Paul M. D.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 16.669581877" West: 75° 31' 35.251974301"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	<b>Sample Location Map:</b> 
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. Collected along riprap line		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-05

PCS No.: 6090

DATE: 1/ /2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: <i>Brown</i>														
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.	Description: <i>very fine grained sand some silt.</i>														
Sample Date and Time: 1/11/2000 <i>1000</i>	<i>Quartz pebbles</i>														
Sampled by: (b) (4)															
Signature(s): <i>Pam M. Dunn</i>															
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: <i>39° 44' 16.540857882"</i> West: <i>75° 31' 34.855661384"</i>														
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<b>Sample Location Map:</b> 
Analysis	Preservative														
<input type="checkbox"/> TCL VOAs	4° C														
<input type="checkbox"/> TCL SVOAs	4° C														
<input type="checkbox"/> TCL Pesticides/PCBs	4° C														
<input type="checkbox"/> TAL Metals	4° C														
<input type="checkbox"/> Cyanide	4° C														
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C														
<input type="checkbox"/> Duplicate Sample Taken <b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <i>collected next to creek bank</i>															

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-05APCS No.: 6187DATE: 2/22/2000WEATHER: Sunny, mild, 50°F, and breezySATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <u>Black</u>
Depth Sampled: <u>6-7</u> inches below creek bed surface.		Description: <u>Organic silt w/ some leafy material</u>
Sample Date and Time: <u>2/22/2000 at 0805</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul D.S.</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 16.541"</u> West: <u>75° 31' 34.855"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-05B

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.	Color: <i>Black</i>																
Depth Sampled: 12-13 inches below creek bed surface.	Description: <i>organic silt with some leaty material</i>																
Sample Date and Time: 2/22/2000 at 0810																	
Sampled by: (b) (4)																	
Signature(s): <i>Paul D. S</i>																	
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: <i>39° 44' 16.541"</i> West: <i>75° 31' 34.855"</i>																
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C	Sample Location Map:
Analysis	Preservative																
<input type="checkbox"/> TCL VOAs	4° C																
<input type="checkbox"/> TCL SVOAs	4° C																
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																
<input type="checkbox"/> TAL Metals	4° C																
<input type="checkbox"/> Cyanide	4° C																
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																
<input type="checkbox"/> Lead only	4° C																
<input type="checkbox"/> Duplicate Sample Taken																	
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.																	

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-06PCS No.: 6090DATE: 1/11/2000WEATHER: Partly sunny, cool, 50°, breezySATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>Silty some clay</u>
Sample Date and Time: <u>1/11/2000 @ 1005</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>[Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 16.197008446"</u> West: <u>75° 31' 34.928056924"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	<b>Sample Location Map:</b> 
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <u>collected next to RipRap line</u>		



ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-07

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <i>Silt with angular pebbles</i>
Sample Date and Time: 1/11/2000 <i>@ 1012</i>		
Sampled by: (b) (4)		
Signature(s): <i>[Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 16.08884854"</i> West: <i>75° 31' 34.6811987"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  <i>collected next to creek bank.</i>  <i>collect confirmation metals here</i>		

SED-07

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-07

PCS No.: 6090

DATE: 1/ 11/2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.

Color:

Dark brown

Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.

Description:

Silt w/ angular pebbles

Sample Date and Time: 1/ 11/2000

@ 1012

Sampled by: (b) (4)

Signature(s):

Paul D.

## Sample Type

- ☒ Low Concentration  
☐ High Concentration  
☒ Grab  
☐ 5-Point Composite

## GPS Coordinates:

North: 39° 44' 16.08884854"

West: 75° 31' 34.6811987"

## Analysis Preservative

- |  |      |
|--|------|
| <input type="checkbox"/> TCL VOAs                          | 4° C |
| <input type="checkbox"/> TCL SVOAs                         | 4° C |
| <input type="checkbox"/> TCL Pesticides/PCBs               | 4° C |
| <input type="checkbox"/> TAL Metals                        | 4° C |
| <input type="checkbox"/> Cyanide                           | 4° C |
| <input type="checkbox"/> DNREC XRF Instrument              | 4° C |
| <input checked="" type="checkbox"/> Lead only (TAL metals) | 4° C |

## Sample Location Map:

☐ Duplicate Sample Taken

## Observations and Notes:

Collected from the eastern side mudflat of the Brandywine Creek.

Confirmation analysis.

CLP No.: MCY 552

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-07APCS No.: 6187DATE: 2/22/2000WEATHER: Sunny, mild, 50°F, and breezySATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <u>orange brown</u>																						
Depth Sampled: <u>5-6</u> inches below creek bed surface.		Description: <u>silty sand - pebbly</u>																						
Sample Date and Time: 2/22/2000 at <u>0820</u>																								
Sampled by: <u>(b) (4)</u>																								
Signature(s): <u>Paul D.</u>																								
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 16.088"</u> West: <u>75° 31' 34.681"</u>																						
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> Duplicate Sample Taken         </td> </tr> </tbody> </table>		Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C					<input type="checkbox"/> Duplicate Sample Taken		Sample Location Map:
Analysis	Preservative																							
<input type="checkbox"/> TCL VOAs	4° C																							
<input type="checkbox"/> TCL SVOAs	4° C																							
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																							
<input type="checkbox"/> TAL Metals	4° C																							
<input type="checkbox"/> Cyanide	4° C																							
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																							
<input type="checkbox"/> Lead only	4° C																							
<input type="checkbox"/> Duplicate Sample Taken																								
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.																								

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-08

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

(b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: (Dark gray mud) medium brown
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Silt some clay
Sample Date and Time: 1/11/2000 @ 1023		
Sampled by: (b) (4)		
Signature(s): Paula D.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 15.802521201" West: 75° 31' 34.664207791"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  collected next to riprap line only sediments		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-08A

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Grayish - black</i>
Depth Sampled: 6-7 inches below creek bed surface.		Description: <i>Silty clay.</i>
Sample Date and Time: 2/22/2000 at 0830		
Sampled by: (b) (4)		
Signature(s): <i>[Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 15.802" West: 75° 31' 34.664"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-sed-0813

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Grayish-black</i>
Depth Sampled: <i>11-13</i> inches below creek bed surface.		Description:  <i>Silty clay.</i>
Sample Date and Time: 2/22/2000 at <i>0835</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul D. S.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 15.802"</i> West: <i>75° 31' 34.664"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	<b>Sample Location Map:</b>
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 73-SED-09

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly Sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Reddish-brown</i>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <i>Sandy silt very few pebbles</i>
Sample Date and Time: 1/11/2000 <i>@ 1030</i>		
Sampled by: (b) (4)		
Signature(s): <i>Pamela D.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 15.520096058"</i> West: <i>75° 31' 34.390347402"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <i>collected next to creek bank</i>		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-09A

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: Greyish brown
Depth Sampled: 5-7 inches below creek bed surface.		Description:  Silty clay
Sample Date and Time: 2/22/2000 at 0840		
Sampled by: (b) (4)		
Signature(s): Paul D. S.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 15.52" West: 75° 31' 34.39"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_



ORIGINAL

<b>SEDIMENT SAMPLE LOG SHEET</b>	<b>SATA REGION III</b>
----------------------------------	------------------------

SITE NAME: <u>12th Street Land Fill Site</u> PCS No.: <u>6187</u> WEATHER: <u>Sunny, mild, 50°F, and breezy</u> SATA PERSONNEL: <u>(b) (4)</u>	SAMPLE No.: <u>TS-SED-09 B</u> DATE: <u>2/22/2000</u>
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Sample Method: Hand auger and a disposable plastic trowel. Depth Sampled: <u>11-13</u> inches below creek bed surface. Sample Date and Time: <u>2/22/2000 at 0845</u> Sampled by: <u>(b) (4)</u> Signature(s): <u>Paul D. [Signature]</u>	Color: <u>Grayish brown</u> Description: <u>Silty clay</u>																				
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: <u>39° 44' 15.52"</u> West: <u>75° 31' 34.39"</u>																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Analysis</th> <th style="text-align: left; padding: 2px;">Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C					<b>Sample Location Map:</b> <div style="height: 150px;"></div>
Analysis	Preservative																				
<input type="checkbox"/> TCL VOAs	4° C																				
<input type="checkbox"/> TCL SVOAs	4° C																				
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																				
<input type="checkbox"/> TAL Metals	4° C																				
<input type="checkbox"/> Cyanide	4° C																				
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																				
<input type="checkbox"/> Lead only	4° C																				
<input type="checkbox"/> Duplicate Sample Taken																					
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.																					

Sample No. \_\_\_\_\_

ORIGINAL

# SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-10

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly Sunny, 100%, 50°, Windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark gray</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>clay - pebbly -</u>
Sample Date and Time: <u>1/11/2000 @ 1035</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul M. Davis</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 15.302743212"</u> West: <u>75° 31' 34.409081666"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <u>collected next to riprap line</u>		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-10

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, 50°, windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark gray
Depth Sampled: 0 to 6 inches below creek bed surface.		Description: clay - pebbly
Sample Date and Time: 1/11/2000 @ 1035		
Sampled by: (b) (4)		
Signature(s): [Signature]		GPS Coordinates: North: 39° 44' 15.302743212" West: 75° 31' 34.409081666"
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	
<input type="checkbox"/> Duplicate Sample Taken <b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  CLP No.: MCYJ54 / CX654  <del>Background Sample</del>		Sample Location Map:

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-11PCS No.: 6090DATE: 1/ 11 /2000WEATHER: Partly sunny, cool, windy, 50"SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>medium brown</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>silt and clay.</u> <u>(dark gray clay)</u>
Sample Date and Time: <u>1/11/2000</u> <u>@ 1045</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 15.205055908"</u> West: <u>75° 31' 34.139154718"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input checked="" type="checkbox"/> Duplicate Sample Taken <u>DNREC</u> <u>TS Dup-01</u>		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  <u>- collected next to</u> <u>CRACK BANK.</u>  <u>- confirm collected here for</u> <u>metals</u>		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-11

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly sunny, cool, windy, 50"

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.

Color:

medium brown

Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.

Description:

silt and clay  
(dark gray clay)

Sample Date and Time: 1/11/2000

@ 1045

Sampled by: (b) (4)

Signature(s):

Paul M. D.

## Sample Type

- ☒ Low Concentration  
☐ High Concentration  
☒ Grab  
☐ 5-Point Composite

## GPS Coordinates:

North: 39° 44' 15.205055908"

West: 75° 31' 34.139154718"

## Analysis

## Preservative

- |  |      |
|--|------|
| <input type="checkbox"/> TCL VOAs                          | 4° C |
| <input type="checkbox"/> TCL SVOAs                         | 4° C |
| <input type="checkbox"/> TCL Pesticides/PCBs               | 4° C |
| <input type="checkbox"/> TAL Metals                        | 4° C |
| <input type="checkbox"/> Cyanide                           | 4° C |
| <input type="checkbox"/> DNREC XRF Instrument              | 4° C |
| <input checked="" type="checkbox"/> Lead only (TAL metals) | 4° C |

## Sample Location Map:

~~Duplicate Sample Taken~~

## Observations and Notes:

Collected from the eastern side mudflat of the Brandywine Creek.

Confirmation analysis.

CLP No.: MCYJ53

~~Duplicate MCYJ53 (2000)~~

Sample No. TS-SED-11

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-11 A

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Grayish black</i>
Depth Sampled: <i>6-7</i> inches below creek bed surface.		Description: <i>Silty clay.</i>
Sample Date and Time: 2/22/2000 at <i>0855</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul J. S.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 15.205"</i> West: <i>75° 31' 34.139"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-Sed-11 B

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: Grayish-black
Depth Sampled: 11-13 inches below creek bed surface.		Description: Silty clay.
Sample Date and Time: 2/22/2000 at 0900		
Sampled by: (b) (4)		
Signature(s): <i>Paul D. S.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 15.205" West: 75° 31' 34.139"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-12

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 40° breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Gray to red. gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: silty clay
Sample Date and Time: 1/12/2000 @ 0820		
Sampled by: (b) (4)		
Signature(s): [Signature]		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 14.867411495" West: 75° 31' 34.29202802"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  collected along riprap line		



ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-13

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Partly Sunny, Cool, 50°, Windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Tan - reddish dark gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Silty clay.
Sample Date and Time: 1/11/2000 @ 1105		
Sampled by: (b) (4)		
Signature(s): Paul M. [Signature]		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 14.597400232" West: 75° 31' 34.111454382"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. - collected next to bank		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-14

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 40° - 60°

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark gray</i>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <i>Silty clay</i>
Sample Date and Time: 1/12/2000 <i>0825</i>		
Sampled by: (b) (4)		
Signature(s): <i>[Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 14.350413586"</i> West: <i>75° 31' 34.324712371"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  <i>- collected along riprap line.</i> <i>- collected bottom TAL metals here</i>		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SE0-14

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40° breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.

Color:

Dark gray

Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.

Description:

Silty clay.

Sample Date and Time: 1/12/2000

0825

Sampled by: (b) (4)

Signature(s):

Paul H.S.

## Sample Type

- ☒ Low Concentration  
☐ High Concentration  
☒ Grab  
☐ 5-Point Composite

## GPS Coordinates:

North: 39° 44' 14.350413586"

West: 75° 31' 34.324712371"

## Analysis

## Preservative

- |  |      |
|--|------|
| <input type="checkbox"/> TCL VOAs                          | 4° C |
| <input type="checkbox"/> TCL SVOAs                         | 4° C |
| <input type="checkbox"/> TCL Pesticides/PCBs               | 4° C |
| <input type="checkbox"/> TAL Metals                        | 4° C |
| <input type="checkbox"/> Cyanide                           | 4° C |
| <input type="checkbox"/> DNREC XRF Instrument              | 4° C |
| <input checked="" type="checkbox"/> Lead only (TAL Metals) | 4° C |

## Sample Location Map:

☐ Duplicate Sample Taken

## Observations and Notes:

Collected from the eastern side mudflat of the Brandywine Creek.

Confirmation analysis.

CLP No.: MC4560

- collected along riprap line

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SED-15

PCS No.: 6090

DATE: 1/11/2000

WEATHER: cloudy, cool, 50° - windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Silty clay
Sample Date and Time: 1/11/2000 P 1110		
Sampled by: (b) (4)		
Signature(s): Paul M. D.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 14.140572863" West: 75° 31' 34.020466487"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input checked="" type="checkbox"/> Duplicate Sample Taken FD-2		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. collected near bank collect bottom TAL metals/sediment		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-15

PCS No.: 6090

DATE: 1/11/2000

WEATHER: cloudy, cool, 50° windy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Gray
Depth Sampled: 0 to 6 inches below creek bed surface.		Description: Silty clay
Sample Date and Time: 1/11/2000 @ 1110		
Sampled by: (b) (4)		
Signature(s): Paul D.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 14.140572863" West: 75° 31' 34.020466487"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input checked="" type="checkbox"/> Duplicate Sample Taken FD-02 FD-01		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. Collected next to creek bank CLP No.: MLYJ55 / CXG64  Background Sample: FD-01 MLYJ96 / CXG85		

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75 SED-15A

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.	Color: <i>Grayish-black</i>																
Depth Sampled: 5-7 inches below creek bed surface.	Description:																
Sample Date and Time: 2/22/2000 at 0910	<i>Silty clay.</i>																
Sampled by: (b) (4)																	
Signature(s): <i>Paul D.</i>																	
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: <i>39° 44' 14.14"</i> West: <i>75° 31' 34.02"</i>																
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C	Sample Location Map:
Analysis	Preservative																
<input type="checkbox"/> TCL VOAs	4° C																
<input type="checkbox"/> TCL SVOAs	4° C																
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																
<input type="checkbox"/> TAL Metals	4° C																
<input type="checkbox"/> Cyanide	4° C																
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																
<input type="checkbox"/> Lead only	4° C																
<input type="checkbox"/> Duplicate Sample Taken																	
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.																	

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-15B

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: Grayish - black
Depth Sampled: 11-13 inches below creek bed surface.		Description: silty clay
Sample Date and Time: 2/22/2000 at 0920		
Sampled by: (b) (4)		
Signature(s): <i>Paul D.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 14.141" West: 75° 31' 34.02"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <i>clay-silty</i>
Sample Date and Time: 1/11/2000		
Sampled by: (b) (4) <i>1128</i>		
Signature(s): <i>[Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 13.89016635"</i> West: <i>75° 31' 34.136466529"</i>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <i>next to rip rap line</i>		



ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-17

PCS No.: 6090

DATE: 1/11/2000

WEATHER: Cloudy, windy, cool, 50°

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: orange brown to gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: silty sand
Sample Date and Time: 1/11/2000 @ 1135		
Sampled by: (b) (4)		
Signature(s): Paul [Signature]		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 13.641336146" West: 75° 31' 33.878444855"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input checked="" type="checkbox"/> Duplicate Sample Taken TS-Dup-03		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  - confirm TAL metals + SVOA collected here.  - collected next to bank		

ORIGINAL  
ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SED-17

PCS No.: 6090

DATE: 1/11/2000

WEATHER: cloudy, cool, windy, 50"

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: orange brown to gray
Depth Sampled: 0 to 6 inches below creek bed surface.		Description: silty sand
Sample Date and Time: 1/11/2000 @ 1135		
Sampled by: (b) (4)		
Signature(s): Paul Davis		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 13.641336146" West: 75° 31' 33.878444855"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input checked="" type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input checked="" type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<del>1 Duplicate Sample Taken 75-SEP-03</del>		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. CLP No.: MC4556 / CX655 Background Sample collected next to bank		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-5E0-18

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown (some orange)
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Silty fine grained sand with some clay
Sample Date and Time: 1/12/2000 @ 0835		
Sampled by: (b) (4)		
Signature(s): Paul M. [Signature]		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 13.381340922" West: 75° 31' 33.98853707"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  - collected along riprap bank - continue for TAL metals/SVOA next only small		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-18

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown (some orange)
Depth Sampled: 0 to 6 inches below creek bed surface.		Description: Silty fine grained sand with some clay. pieces of broken glass and rounded quartz pebbles.
Sample Date and Time: 1/12/2000 @ 0835		
Sampled by: (b) (4)		
Signature(s): <i>Paul M. D.S.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 13.381340922" West: 75° 31' 33.98853707"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input checked="" type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input checked="" type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <i>city smelt</i> CLP No.: <u>MCYJ61/CXG65</u> <del>Backyard Sample</del> <i>collected along riprap line</i>		

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-18APCS No.: 6187DATE: 2/22/2000WEATHER: Sunny, mild, 50°F, and breezySATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <u>Grayish-black</u>
Depth Sampled: <u>5-7</u> inches below creek bed surface.		Description: <u>Silty clay</u>
Sample Date and Time: <u>2/22/2000 at 0930</u>		
Sampled by: <u>(b) (4)</u>		GPS Coordinates: North: <u>39° 44' 13.381"</u> West: <u>75° 31' 33.988"</u>
Signature(s): <u>Paul Dine</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		Sample Location Map:
<b>Analysis</b>	<b>Preservative</b>	
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.  <u>only smell - fuel oil odors</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-19PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40°, breezySATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Brown</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>Silty clay</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 0850</u>		
Sampled by: P <u>(b) (4)</u>		
Signature(s): <u>Paul M. Davis</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 13.175119333"</u> West: <u>75° 31' 33.833766731"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u>	<b>Sample Location Map:</b>
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  <u>collected next to bank</u> <u>collected confirms. TML not here</u>		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SED-23

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 40°, breezy.

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Brown</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>Silty sand</u> <u>some organics (plants)</u> <u>pieces of rubber hose</u>
Sample Date and Time: 1/12/2000 <u>(a) 0918</u>		
Sampled by: (b) (4)		
Signature(s): <u>Paul M. [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 12.185275279"</u> West: <u>75° 31' 33.578530379"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input type="checkbox"/> DNREC XRF Instrument	4° C	
<input checked="" type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  Confirmation analysis.  CLP No.: <u>MCY565</u>  <u>collected next to bank</u>		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS SED-18B

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Grayish - black</i>
Depth Sampled: <i>11-13</i> inches below creek bed surface.		Description:  <i>Silty clay.</i>
Sample Date and Time: 2/22/2000 at <i>0940</i>		
Sampled by: (b) (4)		
Signature(s): <i>Paul D.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <i>39° 44' 13.381"</i> West: <i>75° 31' 33.988"</i>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  <i>only seen.</i> <i>Fuel oil odors</i>		

Sample No. \_\_\_\_\_



## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 73-SED-19

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, Breezy, 40°

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Brown
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: silty clay.
Sample Date and Time: 1/12/2000 P 0850		
Sampled by: (b) (4)		
Signature(s): Paul D.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 13.175119333" West: 75° 31' 33.833766731"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input checked="" type="checkbox"/> Lead only (TAL metals)	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  Confirmation analysis.  CLP No.: MCY564  - collected next to bank		

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-20

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breeze

SATA PERSONNEL: (b) (4)

(b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown to tan
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Silty fine grained sand Semirounded quartz pebbles
Sample Date and Time: 1/12/2000 @ 0900		
Sampled by: (b) (4)		
Signature(s): Paul M. De		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 12.903096335" West: 75° 31' 33.992681293"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  - collected next to rip rap line		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SED-21

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, breezy, 40°

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brown to gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Silty clay Small sub-angular pebbles
Sample Date and Time: 1/12/2000 @ 0905		
Sampled by: P (b) (4)		
Signature(s): Paul M. J.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 12.752342711" West: 75° 31' 33.729774955"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  - collected next to bank		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-22

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Brown gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: clayey silt small rounded quartz pebbles.
Sample Date and Time: 1/12/2000 @ 0910		
Sampled by: P (b) (4)		
Signature(s): Paul M. De		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 12.430543115" West: 75° 31' 33.913427313"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. - collected along rip rap line		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-22

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breeze

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Brown
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: silty sand some organics (roots) pieces of rubber hose. very small pebbles
Sample Date and Time: 1/12/2000 @ 0918		
Sampled by: (b) (4)		
Signature(s): [Signature]		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 12.185275279" West: 75° 31' 33.578530379"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. - collected next to bank - collected contains TAL metal here		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-23A

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.	Color: Grayish-black																
Depth Sampled: 5-7 inches below creek bed surface.	Description:																
Sample Date and Time: 2/22/2000 at 0950	Silty clay																
Sampled by: (b) (4)																	
Signature(s): <i>Paul D.</i>																	
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: 39° 44' 12.185" West: 75° 31' 33.579"																
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C	Sample Location Map:
Analysis	Preservative																
<input type="checkbox"/> TCL VOAs	4° C																
<input type="checkbox"/> TCL SVOAs	4° C																
<input type="checkbox"/> TCL Pesticides/PCBs	4° C																
<input type="checkbox"/> TAL Metals	4° C																
<input type="checkbox"/> Cyanide	4° C																
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																
<input type="checkbox"/> Lead only	4° C																
<input type="checkbox"/> Duplicate Sample Taken																	
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.																	

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-23BPCS No.: 6187DATE: 2/22/2000WEATHER: Sunny, mild, 50°F, and breezySATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.	Color: <u>Grayish-black</u>																
Depth Sampled: <u>11-13</u> inches below creek bed surface.	Description:																
Sample Date and Time: <u>2/22/2000 at 1000</u>	<u>Silty clay.</u>																
Sampled by: <u>(b) (4)</u>																	
Signature(s): <u>Pamela Duns</u>																	
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: <u>39° 44' 12.185"</u> West: <u>75° 31' 33.579"</u>																
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C	Sample Location Map:
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<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																
<input type="checkbox"/> Lead only	4° C																
<input type="checkbox"/> Duplicate Sample Taken																	
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.																	

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 73-SED-24

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Brown
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Clayey silty sand medium sub angular pebbles
Sample Date and Time: 1/12/2000 @ 0925		
Sampled by: (b) (4)		
Signature(s): Paul M. D...		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 11.84878942" West: 75° 31' 33.693509556"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
(DNREC 0.114) <input checked="" type="checkbox"/> Duplicate Sample Taken FD-06		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  - collected next to riprap line		



## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-24A

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Brown</i>																								
Depth Sampled: 5-7 inches below creek bed surface.		Description: <i>Silty very fine grained sand.</i>																								
Sample Date and Time: 2/22/2000 at 1010																										
Sampled by: (b) (4)																										
Signature(s): <i>David Davis</i>																										
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 32° 44' 11.849" West: 75° 31' 33.694"																								
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Lead only</td> <td>4° C</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> Duplicate Sample Taken       </td> <td rowspan="2">Sample Location Map:</td> </tr> <tr> <td colspan="2"> <b>Observations and Notes:</b>           Collected from the eastern side mudflat of the Brandywine Creek.       </td> </tr> </tbody></table>		Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<input type="checkbox"/> Lead only	4° C					<input type="checkbox"/> Duplicate Sample Taken		Sample Location Map:	<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.	
Analysis	Preservative																									
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<input type="checkbox"/> TCL SVOAs	4° C																									
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<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C																									
<input type="checkbox"/> Lead only	4° C																									
<input type="checkbox"/> Duplicate Sample Taken		Sample Location Map:																								
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.																										

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SED-21B

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Brown</i>
Depth Sampled: 11-13 inches below creek bed surface.		Description: <i>Silty very fine grained sand.</i>
Sample Date and Time: 2/22/2000 at 1015		
Sampled by: (b) (4)		
Signature(s): <i>Anne D</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 11.849" West: 75° 31' 33.694"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Lead only	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-JED-25

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dark Brown														
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.	Description: Sandy silt														
Sample Date and Time: 1/12/2000 @ 0935	very small rounded quartz pebbles.														
Sampled by: (b) (4)															
Signature(s): Paul M. Q.															
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite	<b>GPS Coordinates:</b> North: 39° 44' 11.61135979" West: 75° 31' 33.541229431"														
<table border="1"> <thead> <tr> <th>Analysis</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> TCL VOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL SVOAs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TCL Pesticides/PCBs</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> TAL Metals</td> <td>4° C</td> </tr> <tr> <td><input type="checkbox"/> Cyanide</td> <td>4° C</td> </tr> <tr> <td><input checked="" type="checkbox"/> DNREC XRF Instrument</td> <td>4° C</td> </tr> </tbody> </table>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	Sample Location Map:
Analysis	Preservative														
<input type="checkbox"/> TCL VOAs	4° C														
<input type="checkbox"/> TCL SVOAs	4° C														
<input type="checkbox"/> TCL Pesticides/PCBs	4° C														
<input type="checkbox"/> TAL Metals	4° C														
<input type="checkbox"/> Cyanide	4° C														
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C														
<input type="checkbox"/> Duplicate Sample Taken															
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. - collected next to bank															

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-25A

PCS No.: 6187

DATE: 2/22/2000

WEATHER: Sunny, mild, 50°F, and breezy

SATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <i>Grayish-black</i>
Depth Sampled: 5-7 inches below creek bed surface.		Description:  <i>Silty clay.</i>
Sample Date and Time: 2/22/2000 at 1025		
Sampled by: (b) (4)		
Signature(s): <i>Paul D. S.</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 11.611" West: 75° 31' 33.541"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs 4° C <input type="checkbox"/> TCL SVOAs 4° C <input type="checkbox"/> TCL Pesticides/PCBs 4° C <input type="checkbox"/> TAL Metals 4° C <input type="checkbox"/> Cyanide 4° C <input checked="" type="checkbox"/> DNREC XRF Instrument 4° C <input type="checkbox"/> Lead only 4° C		Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-25BPCS No.: 6187DATE: 2/22/2000WEATHER: Sunny, mild, 50°F. and breezySATA PERSONNEL: (b) (4)

Sample Method: Hand auger and a disposable plastic trowel.		Color: <u>Grayish-black</u>
Depth Sampled: <u>11-13</u> inches below creek bed surface.		Description: <u>silty clay.</u>
Sample Date and Time: <u>2/22/2000 at 1035</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>[Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 11.611"</u> West: <u>75° 31' 33.541"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b>  Collected from the eastern side mudflat of the Brandywine Creek.		

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: 75-SED-26

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark brownish-gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Sandy clay
Sample Date and Time: 1/12/2000 @ 0940		only smell
Sampled by: (b) (4)		small rounded pebbles
Signature(s): Paul D. S.		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 11.406105216" West: 75° 31' 33.597529813"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  - collected next to riprap line		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS SED - 27

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, breezy, 40°

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown-gray</i>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <i>clay</i>
Sample Date and Time: 1/12/2000 @ 0950		
Sampled by: P(b) (4)		
Signature(s): <i>Paul M. [Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 11.223333844" West: 75° 31' 33.358894155"
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <i>collected next to bank</i>		

Sample No. \_\_\_\_\_



ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SEG-28PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, cool, 40°, breezeSATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>Silty clay</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 1000</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul M. Jones</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 10.920525636"</u> West: <u>75° 31' 33.438338372"</u>
<b>Analysis</b>	<b>Preservative</b>	<b>Sample Location Map:</b>
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <u>- collected next to riprap line</u> <u>- collected confirm TAL metals + SVOA here</u>		

ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SEN-20PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, Cool, 40°, breezySATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown</u>
Depth Sampled: 0 to 6 inches below creek bed surface.		Description: <u>Silty clay</u>
Sample Date and Time: <u>1/12/2000</u> <u>@ 1200</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>Paul [Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 10.920525636"</u> West: <u>75° 31' 33.438338372"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input checked="" type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input checked="" type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input type="checkbox"/> Lead only	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <u>collected next to riprap line</u> CLP No.: <u>MC4J67 / CX661</u> <del>Background Sample</del>		

Sample No. \_\_\_\_\_

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-29

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: clay
Sample Date and Time: 1/12/2000 @ 1010		
Sampled by: P(b) (4)		
Signature(s): Paul M. [Signature]		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 10.640661054" West: 75° 31' 33.266847256"
<b>Analysis</b>	<b>Preservative</b>	Sample Location Map:
<input type="checkbox"/> TCL VOAs	4° C	
<input type="checkbox"/> TCL SVOAs	4° C	
<input type="checkbox"/> TCL Pesticides/PCBs	4° C	
<input type="checkbox"/> TAL Metals	4° C	
<input type="checkbox"/> Cyanide	4° C	
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  - collected next to bank - collected container, DAC metals here		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-SED-29

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: Dark gray
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: Clay.
Sample Date and Time: 1/12/2000 @ 1010		
Sampled by: (b) (4)		
Signature(s): <i>[Signature]</i>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: 39° 44' 10.640661054" West: 75° 31' 33.260847256"
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input type="checkbox"/> DNREC XRF Instrument <input checked="" type="checkbox"/> Lead only (TAL metals)	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek.  Confirmation analysis.  CLP No.: MCYJ68  -collected next to bank		

Sample No. \_\_\_\_\_

ORIGINAL

SEDIMENT SAMPLE LOG SHEET	SATA REGION III
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SITE NAME: <u>12th Street Land Fill Site</u>	SAMPLE No.: <u>TS-SED-30</u>
PCS No.: <u>6090</u>	DATE: <u>1/12/2000</u>
WEATHER: <u>Partly Sunny, Cool, 40°, breezy</u>	
SATA PERSONNEL: <u>(b) (4)</u>	

<p>Sample Method: Disposable plastic trowel and disposable aluminum pan.</p> <p>Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.</p> <p>Sample Date and Time: <u>1/12/2000</u> <u>@ 1020</u></p> <p>Sampled by: <u>(b) (4)</u></p> <p>Signature(s): <u>Paul [Signature]</u></p>	<p>Color: <u>Dark brown</u></p> <p>Description: <u>organic clayey silt (roots)</u></p>														
<p style="text-align: center;"><b>Sample Type</b></p> <p><input checked="" type="checkbox"/> Low Concentration</p> <p><input type="checkbox"/> High Concentration</p> <p><input checked="" type="checkbox"/> Grab</p> <p><input type="checkbox"/> 5-Point Composite</p>	<p style="text-align: center;"><b>GPS Coordinates:</b></p> <p>North: <u>39° 44' 10.423018946"</u></p> <p>West: <u>75° 31' 33.448616155"</u></p>														
<table border="1" style="width: 100%;"><thead><tr><th style="text-align: left;">Analysis</th><th style="text-align: left;">Preservative</th></tr></thead><tbody><tr><td><input type="checkbox"/> TCL VOAs</td><td>4° C</td></tr><tr><td><input type="checkbox"/> TCL SVOAs</td><td>4° C</td></tr><tr><td><input type="checkbox"/> TCL Pesticides/PCBs</td><td>4° C</td></tr><tr><td><input type="checkbox"/> TAL Metals</td><td>4° C</td></tr><tr><td><input type="checkbox"/> Cyanide</td><td>4° C</td></tr><tr><td><input checked="" type="checkbox"/> DNREC XRF Instrument</td><td>4° C</td></tr></tbody></table> <p><input type="checkbox"/> Duplicate Sample Taken</p>	Analysis	Preservative	<input type="checkbox"/> TCL VOAs	4° C	<input type="checkbox"/> TCL SVOAs	4° C	<input type="checkbox"/> TCL Pesticides/PCBs	4° C	<input type="checkbox"/> TAL Metals	4° C	<input type="checkbox"/> Cyanide	4° C	<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C	<p><b>Sample Location Map:</b></p>
Analysis	Preservative														
<input type="checkbox"/> TCL VOAs	4° C														
<input type="checkbox"/> TCL SVOAs	4° C														
<input type="checkbox"/> TCL Pesticides/PCBs	4° C														
<input type="checkbox"/> TAL Metals	4° C														
<input type="checkbox"/> Cyanide	4° C														
<input checked="" type="checkbox"/> DNREC XRF Instrument	4° C														
<p><b>Observations and Notes:</b></p> <p>Collected from the eastern side mudflat of the Brandywine Creek.</p> <p><u>collected next to rip rap line</u></p>															

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <i>Dark brown</i>	
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <i>silty clay</i>	
Sample Date and Time: 1/12/2000 <i>@ 1030</i>			
Sampled by: P <i>(b) (4)</i>			
Signature(s): <i>Paul D</i>			
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> <del>West</del> <i>North</i> : <i>75° 31' 33.612707221"</i> <del>West</del> <i>North</i> : <i>39° 44' 06.97169749"</i>	
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument		<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	
<input type="checkbox"/> Duplicate Sample Taken		<b>Sample Location Map:</b>	
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <i>collected next to <u>bank</u> <u>upstream</u></i>			

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-32PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, Cool, 40°, breezeSATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Doric brown</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>silty clay</u>
Sample Date and Time: 1/12/2000 <u>@ 1035</u>		
Sampled by: P <u>(b) (4)</u>		
Signature(s): <u>Paul M. D.S.</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 06.575836069"</u> West: <u>75° 31' 33.9480318"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <u>- collected next to riprap line</u> <u>- collected confirm TAL metals here</u>		

Sample No. \_\_\_\_\_



ORIGINAL

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill SiteSAMPLE No.: TS-SED-33PCS No.: 6090DATE: 1/12/2000WEATHER: Partly Sunny, Cool, 40°, breezySATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color: <u>Dark brown to gray</u>
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description: <u>Silty clay</u>
Sample Date and Time: <u>1/12/2000 @ 1050</u>		
Sampled by: <u>(b) (4)</u>		
Signature(s): <u>[Signature]</u>		
<b>Sample Type</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<b>GPS Coordinates:</b> North: <u>39° 44' 05.12005601"</u> West: <u>15° 31' 34.702607475"</u>
<b>Analysis</b> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<b>Preservative</b> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u> <u>4° C</u>	<b>Sample Location Map:</b>
<input type="checkbox"/> Duplicate Sample Taken		
<b>Observations and Notes:</b> Collected from the eastern side mudflat of the Brandywine Creek. <u>- collected next to bank</u>		

## SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site

SAMPLE No.: TS-5E0-34

PCS No.: 6090

DATE: 1/12/2000

WEATHER: Partly Sunny, Cool, 40°, breezy

SATA PERSONNEL: (b) (4)

Sample Method: Disposable plastic trowel and disposable aluminum pan.		Color:
Depth Sampled: 0 to 6 inches below creek bed surface, during low tide.		Description:
Sample Date and Time: 1/12/2000 @ 1055		
Sampled by: (b) (4)		
<p align="center"><b>Sample Type</b></p> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 5-Point Composite		<p align="center"><b>GPS Coordinates:</b></p> North: 39° 44' 04.582684326" West: 75° 31' 34.788613838"
<p><b>Analysis</b></p> <input type="checkbox"/> TCL VOAs <input type="checkbox"/> TCL SVOAs <input type="checkbox"/> TCL Pesticides/PCBs <input type="checkbox"/> TAL Metals <input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> DNREC XRF Instrument	<p><b>Preservative</b></p> 4° C 4° C 4° C 4° C 4° C 4° C	Sample Location Map:
<input type="checkbox"/> Duplicate Sample Taken		
<p><b>Observations and Notes:</b></p> Collected from the eastern side mudflat of the Brandywine Creek. collected next to riprap line		

ORIGINAL

ATTACHMENT 2  
SAMPLE DATA SUMMARY

## GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

### CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

### CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte Present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

[] = Analyte present. As values approach the IDL the quantitation may not be accurate.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

### OTHER CODES

Q = No analytical result.

## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG: MCYJ52

Number of Soil Samples: 16

Site:

12TH STREET LANDFILL

Number of Water Samples: 0

Lab.:

SWOK

Sample Number :		MCYJ52		MCYJ53		MCYJ54		MCYJ55		MCYJ56		
Sampling Location :		TS-SED-07 ✓		TS-SED-11 ✓		TS-SED-10 ✓		TS-SED-15 ✓		TS-SED-17 ✓		
Matrix :		Soil		Soil		Soil		Soil		Soil		
Units :		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		
Date Sampled :		01/11/2000		01/11/2000		01/11/2000		01/11/2000		01/11/2000		
Time Sampled :		10:12		10:45		10:35		11:10		11:35		
%Solids :		64.7		64.7		66.5		59.7		69.4		
Dilution Factor :		1.0 / 5.0		1.0		1.0		1.0		1.0		
								FIELD DUP OF MCYJ96				
ANALYTE		CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM		40	4240	J	11700	J	10900	J	14000	J	12200	J
ANTIMONY		12	[6.9]	L	[2.1]	L	[1.4]	L	UL			UL
ARSENIC		2	23.0		62.1		9.5		6.7		9.7	
BARIUM		40	527	J	114	J	80.1	J	86.5	J	70.7	J
BERYLLIUM		1	[0.54]		[0.88]		[0.81]		[0.95]		[0.73]	
CADMIUM		1	4.8		[1.1]		[1.2]		[0.73]		[0.55]	
CALCIUM		1000	2820	J	3420	J	2910	J	3230	J	2700	J
CHROMIUM		2	68.8	J	160	J	42.7	J	49.2	J	40.3	J
COBALT		10	[12.3]		[13.1]		[8.2]		[12.7]		[9.5]	
COPPER		5	799	J	79.3	J	202	J	21.2	J	19.8	J
IRON		20	39200		26100		38600		26300		22700	
LEAD		0.6	+ 19500	J	508	J	277	J	181	J	481	J
MAGNESIUM		1000	1530		3850		3910		5470		4380	
MANGANESE		3	952		408		293		239		251	
MERCURY		0.1	2.8		1.5		[0.12]	B	0.30	B	0.14	B
NICKEL		8	27.4		23.4		21.8		23.4		17.9	
POTASSIUM		1000	[357]		[1400]		1560		1930		1560	
SELENIUM		1	2.1	L	4.9		[1.4]	L	UL		1.8	L
SILVER		2	5.6									
SODIUM		1000	[479]	J	[806]	J	[745]	J	[708]	J	[856]	J
THALLIUM		2	[1.5]									
VANADIUM		10	21.2		35.5		34.6		38.9		37.0	
ZINC		4	1350	J	259	J	224	J	117	J	81.3	J

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

+ = Results reported from diluted analysis.

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## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG: MCYJ52

Site:

12TH STREET LANDFILL

Lab.:

SWOK

Sample Number:	MCYJ62	MCYJ64	MCYJ65	MCYJ66	MCYJ67
Sampling Location:	TS-SS-12 ✓	TS-SED-19 ✓	TS-SED-23 ✓	TS-SED-27 ✓	TS-SED-28 ✓
Matrix:	Soil	Soil	Soil	Soil	Soil
Units:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Sampled:	01/11/2000	01/12/2000	01/12/2000	01/12/2000	01/12/2000
Time Sampled:	15:15	08:50	09:18	09:50	10:00
%Solids:	76.9	64.7	59.5	65.1	62.7
Dilution Factor:	1.0 / 5.0	1.0	1.0	1.0	1.0

  

ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	14300	J	13400	J	9560	J	13900	J	22400	J
ANTIMONY	12	[1.9]	L		UL	[1.9]	L		UL	[0.85]	L
ARSENIC	2	23.5		4.7		56.9		11.0		9.7	
BARIUM	40	265	J	66.3	J	89.6	J	92.0	J	99.9	J
BERYLLIUM	1	[0.30]		[0.70]		[0.51]		[0.77]		[1.1]	
CADMIUM	1	6.1		[0.59]		2.2		[0.98]		[0.99]	
CALCIUM	1000	8740	J	3480	J	3990	J	3290	J	4440	J
CHROMIUM	2	88.4	J	38.3	J	114	J	51.5	J	65.5	J
COBALT	10	[10.6]		[8.1]		[13.2]		[12.3]		17.8	
COPPER	5	549	J	10.8	J	403	J	21.3	J	18.7	J
IRON	20	28600		21200		34600		20900		27200	
*LEAD	0.6	7780	J	21.6	J	3170	J	38.6	J	29.2	J
MAGNESIUM	1000	3180		5280		2670		5280		6610	
MANGANESE	3	582		191		397		191		306	
MERCURY	0.1	0.21	B	[0.10]	B	0.48	B	0.13	B	[0.12]	B
NICKEL	8	49.3		17.5		60.0		22.8		30.2	
POTASSIUM	1000	[929]		1670		[956]		2070		2390	
SELENIUM	1	2.5	L	[0.98]	L	4.4			UL		UL
SILVER	2	[0.53]				[0.46]					
SODIUM	1000	[539]	J	[758]	J	[510]	J	[703]	J	[746]	J
THALLIUM	2							[1.2]		[1.7]	
VANADIUM	10	33.6		36.7		32.0		38.1		51.3	
ZINC	4	+ 2900	J	67.1	J	1200	J	199	J	199	J

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

+ = Result reported from diluted analysis.

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## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG : MCYJ52

Site :

12TH STREET LANDFILL

Lab. :

SWOK

Sample Number :		MCYJ68									
Sampling Location :		TS-SED-29									
Matrix :		Soil									
Units :		mg/Kg									
Date Sampled :		01/12/2000									
Time Sampled :		10:10									
%Solids :		63.3									
Dilution Factor :		1.0									
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	-Result	Flag
ALUMINUM	40	13700	J								
ANTIMONY	12		UL								
ARSENIC	2	9.2									
BARIUM	40	87.7	J								
BERYLLIUM	1	[0.84]									
CADMIUM	1	[0.91]									
CALCIUM	1000	3080	J								
CHROMIUM	2	46.5	J								
COBALT	10	16.8									
COPPER	5	18.4	J								
IRON	20	28300									
LEAD	0.6	26.5	J								
MAGNESIUM	1000	5880									
MANGANESE	3	311									
MERCURY	0.1	[0.15]	B								
NICKEL	8	24.5									
POTASSIUM	1000	2230									
SELENIUM	1	[1.1]	L								
SILVER	2										
SODIUM	1000	[728]	J								
THALLIUM	2										
VANADIUM	10	36.9									
ZINC	4	135	J								

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG : MCYJ69

Number of Soil Samples : 15

Site :

12TH STREET LANDFILL

Number of Water Samples : 1

Lab. :

SWOK

Sample Number :	MCYJ69	MCYJ70	MCYJ71	MCYJ72	MCYJ73
Sampling Location :	TS-SS-13	TS-SS-15	TS-SS-17	TS-SS-18	TS-SS-21
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Sampled :	01/12/2000	01/12/2000	01/12/2000	01/12/2000	01/12/2000
Time Sampled :	12:30	12:45	13:00	13:10	13:30
%Solids :	61.7	65.6	73.0	67.8	59.5
Dilution Factor :	1.0	1.0 / 5.0	1.0 / 5.0	1.0 / 5.0	1.0 / 5.0

  

ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	12700	J	16500	J	15700	J	15100	J	14800	J
ANTIMONY	12	[5.6]	L	[7.5]	L	[8.3]	L	[8.6]	L	[8.0]	L
ARSENIC	2	47.7		86.9		105		93.7		83.6	
BARIUM	40	165		224		431		213		204	
BERYLLIUM	1	[0.55]		[0.64]		[0.58]		[0.53]		[0.56]	
CADMIUM	1	4.5		6.3		8.4		7.3		6.0	
CALCIUM	1000	9640		8800		20900		15300		8520	
CHROMIUM	2	202	K	237	K	586	K	392	K	310	K
COBALT	10	66.1	J	95.5	J	114	J	102	J	96.9	J
COPPER	5	252		330		493		374		348	
IRON	20	77800	J	+ 98100	J	+ 112000	J	+ 100000	J	+ 102000	J
LEAD	0.6	3660		1690		7790		3970		2400	
MAGNESIUM	1000	4360		4950		4590		4860		4330	
MANGANESE	3	433		471		631		616		468	
MERCURY	0.1	0.35	B	0.29	B	0.42	B	0.37	B	0.29	B
NICKEL	8	40.2	J	39.4	J	40.8	J	46.3	J	115	J
POTASSIUM	1000	1750	J	2480	J	1580	J	1680	J	2260	J
SELENIUM	1	12.2		11.2		16.5		14.3		12.3	
SILVER	2	[1.1]		[1.9]		[2.3]		[1.9]		[1.6]	
SODIUM	1000	[440]	J	[498]	J	[538]	J	[484]	J	[521]	J
THALLIUM	2	6.6		6.2		8.3		7.1		7.1	
VANADIUM	10	46.3		51.1		53.0		48.6		51.8	
ZINC	4	1590	J	2270	J	+ 3030	J	2280	J	2120	J

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

+ = Results reported from diluted analysis.

Revised 09/99



## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG : MCYJ69

Site :

12TH STREET LANDFILL

Lab. :

SWOK

Sample Number :		MCYJ74		MCYJ75		MCYJ76		MCYJ77		MCYJ78	
Sampling Location :		TS-SS-24 ✓		TS-SB-05 ✓		TS-SB-12 ✓		TS-SB-04 ✓		TS-SB-08 ✓	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :		01/12/2000		01/13/2000		01/13/2000		01/13/2000		01/13/2000	
Time Sampled :		13:50		09:15		10:45		08:50		10:15	
%Solids :		62.4		74.5		84.3		75.1		77.1	
Dilution Factor :		1.0		1.0 / 5.0		1.0		1.0 / 5.0		1.0 / 5.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	2250	J	21100	J	8370	J	21800	J	12200	J
ANTIMONY	12	[1.2]	B	[7.8]	L	[2.0]	B	[8.7]	L	[3.4]	L
ARSENIC	2	12.2		99.8		17.7		107		60.7	
BARIUM	40	[33.0]		344		49.5		830		286	
BERYLLIUM	1			[0.77]		[0.53]		[0.56]		[0.43]	
CADMIUM	1	[0.83]		8.5		[0.89]		12.2		4.7	
CALCIUM	1000	2670		15300		1430		34300		11700	
CHROMIUM	2	41.3	K	385	K	47.8	K	441	K	157	K
COBALT	10	[12.5]	J	81.2	J	19.1	J	105	J	31.5	J
COPPER	5	46.7		385		48.3		526		370	
IRON	20	13400	J	+ 140000	J	27800	J	+ 121000	J	40000	J
*LEAD	0.6	521		4630		94.3		14200		+ 22300	
MAGNESIUM	1000	[1380]		5630		2610		7000		3000	
MANGANESE	3	68.6		705		226		774		477	
MERCURY	0.1	0.40	B	0.30	B	[0.09]	B	0.29	B	0.31	B
NICKEL	8	[4.9]	B	71.4	J	17.6	J	49.4	J	62.4	J
POTASSIUM	1000	[286]	J	2010	J	[1100]	J	1560	J	[898]	J
SELENIUM	1	1.8	K	13.8		2.1	K	13.1		4.7	
SILVER	2	[0.36]		[1.6]				[2.3]		[1.2]	
SODIUM	1000	[72.4]	B	[581]	J	[339]	J	[709]	J	[476]	J
THALLIUM	2	[2.3]		9.9		[1.6]		7.9		[2.1]	
VANADIUM	10	[8.4]		62.9		25.5		62.8		41.7	
ZINC	4	352	J	+ 3260	J	229	J	+ 5360	J	+ 2870	J

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

+ = Results reported from diluted analysis.

Revised 09/99

## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG : MCYJ69

Site :

12TH STREET LANDFILL

Lab. :

SWOK

Sample Number :	MCYJ93	MCYJ94	MCYJ95	MCYJ96	MCYJ97						
Sampling Location :	TS-BG-01 ✓	TS-BG-02 ✓	TS-BG-03	TS-FD-01	TS-FD-02 ✓						
Matrix :	Soil	Soil	Soil	Soil	Soil						
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg						
Date Sampled :	01/13/2000	01/13/2000	01/13/2000	01/11/2000	01/11/2000						
Time Sampled :	12:50	12:55	13:00	00:00	00:00						
%Solids :	68.7	79.5	82.0	59.9	70.0						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0 / 10.0						
				FIELD DUP OF MCYJ55	FIELD DUP OF MCYJ58						
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	19600	J	16900	J	19900	J	24700	J	21600	J
ANTIMONY	12	[1.2]	B	[2.9]	L	[1.8]	L	[2.0]	L	[7.3]	L
ARSENIC	2	3.4	K	8.5		5.3		6.3	K	71.6	
BARIUM	40	142		153		144		107		490	
BERYLLIUM	1	[0.81]		[0.67]		[0.70]		[1.0]		[0.55]	
CADMIUM	1	[0.48]		[1.1]		[0.70]		[0.67]		6.3	
CALCIUM	1000	2240		1900		1610		4480		14400	
CHROMIUM	2	39.7	K	62.1	K	48.4	K	61.8	K	159	K
COBALT	10	[10.0]	J	14.3	J	14.7	J	[15.6]	J	51.7	J
COPPER	5	23.9		80.2		42.8		17.6		321	
IRON	20	20200	J	28100	J	28600	J	35500	J	+ 82800	J
LEAD	0.6	31.4		174		75.2		81.0		+ 73000	
MAGNESIUM	1000	3910		3690		3620		7600		4490	
MANGANESE	3	430		600		1030		293		512	
MERCURY	0.1	[0.10]	B	0.62		0.26	B	0.22	B	0.33	B
NICKEL	8	23.1	J	29.0	J	23.9	J	28.6	J	49.6	J
POTASSIUM	1000	1580	J	1840	J	1300	J	3640	J	2590	J
SELENIUM	1			[0.91]	K	[0.79]	K	[1.2]	K	8.9	
SILVER	2			[0.26]						[1.3]	
SODIUM	1000	[460]	J	[350]	J	[320]	J	[749]	J	[849]	J
THALLIUM	2			[1.4]		[1.1]		[2.2]		4.7	
VANADIUM	10	52.6		64.9		58.1		58.6		49.4	
ZINC	4	75.3	J	168	J	95.0	J	120	J	+ 4890	J

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

+ = Results reported from diluted analysis.

Revised 09/99

## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG: MCYJ69

Site:

12TH STREET LANDFILL

Lab.:

SWOK

Sample Number :	MCYJ79										
Sampling Location :	TS-RB-01										
Matrix :	Water										
Units :	ug/L										
Date Sampled :	01/13/2000										
Time Sampled :	11:30										
%Solids :	0.0										
Dilution Factor :	1.0										
	RINSATE BLANK										
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	[10.6]	B								
ANTIMONY	60										
*ARSENIC	10										
BARIUM	200										
BERYLLIUM	5										
*CADMIUM	5										
CALCIUM	5000	[44.1]	B								
*CHROMIUM	10										
COBALT	50										
COPPER	25										
IRON	100	[80.5]									
*LEAD	3										
MAGNESIUM	5000	[15.0]									
MANGANESE	15										
MERCURY	0.2	0.20	K								
*NICKEL	40	[4.9]									
POTASSIUM	5000										
SELENIUM	5										
SILVER	10										
SODIUM	5000	[66.2]									
THALLIUM	10										
VANADIUM	50										
ZINC	20	[5.3]	B								

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE

ORIGINAL

BG-04

Name: COMPUCHEM Contract: \_\_\_\_\_  
 Lab Code: LIBRTY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: R1141  
 Matrix (soil/water): SOIL Lab Sample ID: R1141-4  
 Level (low/med): LOW Date Received: 02/15/00  
 % Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13500	-	-	P
7440-36-0	Antimony	0.64	U	N	P
7440-38-2	Arsenic	13.8	-	-	P
7440-39-3	Barium	73.2	-	-	P
7440-41-7	Beryllium	0.61	B	-	P
7440-43-9	Cadmium	0.44	B	-	P
7440-70-2	Calcium	1120	B	-	P
7440-47-3	Chromium	49.6	-	*	P
7440-48-4	Cobalt	6.1	B	-	P
7440-50-8	Copper	28.7	-	*	P
7439-89-6	Iron	23000	-	-	P
7439-92-1	Lead	29.2	-	*	P
7439-95-4	Magnesium	3770	-	-	P
7439-96-5	Manganese	179	-	N	P
7439-97-6	Mercury	2.0	-	-	CV
7440-02-0	Nickel	15.7	-	N*	P
7440-09-7	Potassium	1590	-	E	P
7782-49-2	Selenium	0.56	U	N*	P
7440-22-4	Silver	0.15	U	-	P
7440-23-5	Sodium	112	B	-	P
7440-28-0	Thallium	4.7	-	-	P
7440-62-2	Vanadium	35.3	-	-	P
7440-66-6	Zinc	109	-	-	P

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: COARSE

Color After: YELLOW Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE

ORIGINAL

SS-34

Lab Name: COMPUCHEM

Contract: \_\_\_\_\_

Lab Code: LIBRTY

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: R1141\_

Matrix (soil/water): SOIL\_

Lab Sample ID: R1141-1

Level (low/med): LOW\_

Date Received: 02/15/00

% Solids: 70.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13900	-		P
7440-36-0	Antimony	2.0	B	N	P
7440-38-2	Arsenic	73.9	-		P
7440-39-3	Barium	172	-		P
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	4.0	-		P
7440-70-2	Calcium	9700	-		P
7440-47-3	Chromium	298	-	*	P
7440-48-4	Cobalt	62.3	-		P
7440-50-8	Copper	2990	-	*	P
7439-89-6	Iron	61700	-		P
7439-92-1	Lead	7350	-	*	P
7439-95-4	Magnesium	4320	-		P
7439-96-5	Manganese	498	-	N	P
7439-97-6	Mercury	0.18	-		CV
7440-02-0	Nickel	71.6	-	N*	P
7440-09-7	Potassium	1700	-	E	P
7782-49-2	Selenium	9.6	-	N*	P
7440-22-4	Silver	1.1	B		P
7440-23-5	Sodium	65.8	B		P
7440-28-0	Thallium	11.3	-		P
7440-62-2	Vanadium	43.2	-		P
7440-66-6	Zinc	1800	-		P

Color Before: BROWN

Clarity Before: \_\_\_\_\_

Texture: COARSE

Color After: YELLOW

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ORIGINAL

SS-35

Lab Name: COMPUCHEM

Contract: \_\_\_\_\_

Lab Code: LIBRTY

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: R1141

Matrix (soil/water): SOIL

Lab Sample ID: R1141-2

Level (low/med): LOW

Date Received: 02/15/00

% Solids: 77.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12400	-		P
7440-36-0	Antimony	2.8	B	N	P
7440-38-2	Arsenic	114	-		P
7440-39-3	Barium	279	-		P
7440-41-7	Beryllium	0.50	B		P
7440-43-9	Cadmium	6.3	-		P
7440-70-2	Calcium	13100	-		P
7440-47-3	Chromium	289	-	*	P
7440-48-4	Cobalt	72.1	-		P
7440-50-8	Copper	405	-	*	P
7439-89-6	Iron	75000	-		P
7439-92-1	Lead	13400	-	*	P
7439-95-4	Magnesium	3350	-		P
7439-96-5	Manganese	464	-	N	P
7439-97-6	Mercury	0.41	-		CV
7440-02-0	Nickel	89.9	-	N*	P
7440-09-7	Potassium	1140	B	E	P
7782-49-2	Selenium	6.1	-	N*	P
7440-22-4	Silver	1.7	B		P
7440-23-5	Sodium	38.4	U		P
7440-28-0	Thallium	13.1	-		P
7440-62-2	Vanadium	38.1	-		P
7440-66-6	Zinc	3490	-		P
			-		
			-		

Color Before: BROWN

Clarity Before: \_\_\_\_\_

Texture: COARSE

Color After: YELLOW

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ORIGINAL  
ORIGINAL

SS-36

Lab Name: COMPUCHEM \_\_\_\_\_ Contract: \_\_\_\_\_

Lab Code: LIBRTY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: R1141\_

Matrix (soil/water): SOIL\_ Lab Sample ID: R1141-3

Level (low/med): LOW\_ Date Received: 02/15/00

% Solids: 76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100	-		P
7440-36-0	Antimony	4.2	B	N	P
7440-38-2	Arsenic	18.9	-		P
7440-39-3	Barium	150	-		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	2.9	-		P
7440-70-2	Calcium	10200	-		P
7440-47-3	Chromium	121	-	*	P
7440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	1080	-	*	P
7439-89-6	Iron	42100	-		P
7439-92-1	Lead	22600	-	*	P
7439-95-4	Magnesium	2710	-		P
7439-96-5	Manganese	561	-	N	P
7439-97-6	Mercury	0.12	B		CV
7440-02-0	Nickel	83.6	-	N*	P
7440-09-7	Potassium	496	B	E	P
7782-49-2	Selenium	0.58	U	N*	P
7440-22-4	Silver	0.41	B		P
7440-23-5	Sodium	548	B		P
7440-28-0	Thallium	8.0	-		P
7440-62-2	Vanadium	21.7	-		P
7440-66-6	Zinc	1730	-		P

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ORIGINAL

SS-37

Lab Name: COMPUCHEM

Contract: \_\_\_\_\_

Lab Code: LIBRTY

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: R1141

Matrix (soil/water): SOIL

Lab Sample ID: R1141-5

Level (low/med): LOW

Date Received: 02/15/00

% Solids: 80.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5830	-		P
7440-36-0	Antimony	0.71	B	N	P
7440-38-2	Arsenic	17.4	-		P
7440-39-3	Barium	98.0	-		P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	1.0	B		P
7440-70-2	Calcium	1990	-		P
7440-47-3	Chromium	45.4	-	*	P
7440-48-4	Cobalt	16.8	-		P
7440-50-8	Copper	60.4	-	*	P
7439-89-6	Iron	22100	-		P
7439-92-1	Lead	566	-	*	P
7439-95-4	Magnesium	1870	-		P
7439-96-5	Manganese	185	-	N	P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	15.6	-	N*	P
7440-09-7	Potassium	725	B	E	P
7782-49-2	Selenium	1.4	-	N*	P
7440-22-4	Silver	0.17	B		P
7440-23-5	Sodium	36.6	U		P
7440-28-0	Thallium	4.6	-		P
7440-62-2	Vanadium	25.3	-		P
7440-66-6	Zinc	551	-		P
			-		
			-		

Color Before: BROWN

Clarity Before: \_\_\_\_\_

Texture: MEDIUM

Color After: YELLOW

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:



## DATA SUMMARY FORM: INORGANIC

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ORIGINAL

Case #: 27734

SDG : MCYJ52

Site :

12TH STREET LANDFILL

Lab. :

SWOK

Sample Number :		MCYJ57		MCYJ58		MCYJ59		MCYJ60		MCYJ61	
Sampling Location :		TS-SS-08 ✓		TS-SS-09 ✓		TS-SS-10 ✓		TS-SED-14 ✓		TS-SED-18 ✓	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :		01/11/2000		01/11/2000		01/11/2000		01/12/2000		01/12/2000	
Time Sampled :		14:15		14:30		14:50		08:25		08:35	
%Solids :		70.4		71.7		77.0		63.1		64.6	
Dilution Factor :		1.0		1.0 / 5.0		1.0		1.0		1.0	
				FIELD DUP OF MCYJ97							
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	9530	J	14600	J	10700	J	11600	J	11200	J
ANTIMONY	12	[4.1]	L	[1.8]	L	[2.8]	L		UL	[1.3]	L
ARSENIC	2	107		50.2		86.5		4.6		29.2	
BARIUM	40	269	J	587	J	270	J	63.8	J	153	J
BERYLLIUM	1	[0.42]		[0.39]		[0.36]		[0.65]		[1.1]	
CADMIUM	1	5.9		4.6		4.7		[0.48]		2.6	
CALCIUM	1000	9310	J	18100	J	21400	J	[1400]	J	3350	J
CHROMIUM	2	232	J	185	J	759	J	33.9	J	84.4	J
COBALT	10	59.0		25.6		36.1		[6.6]		19.9	
COPPER	5	440	J	264	J	291	J	10.2	J	181	J
IRON	20	64800		33500		36700		18000		38700	
LEAD	0.6	6890	J	+ 33500	J	9330	J	14.9	J	5620	J
MAGNESIUM	1000	3590		4090		3520		4120		3760	
MANGANESE	3	493		390		496		177		1600	
MERCURY	0.1	0.28	B	0.38	B	0.43	B	0.19	B	0.55	B
NICKEL	8	43.8		36.5		23.2		15.5		37.9	
POTASSIUM	1000	[1240]		[1270]		[1030]		[1380]		[1280]	
SELENIUM	1	11.0		7.1		11.7			UL	4.6	
SILVER	2	[1.8]		[1.1]		[1.2]				[0.42]	
SODIUM	1000	[464]	J	[542]	J	[389]	J	[720]	J	[786]	J
THALLIUM	2	[2.2]		[1.6]		[1.5]					
VANADIUM	10	45.5		37.4		34.5		32.3		38.2	
ZINC	4	2550	J	+ 4280	J	2350	J	56.6	J	1000	J

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

+ = Results reported from diluted analysis.

Revised 09/99

Site Name: *EPA 12 St. Drum Site*Sampling Date: *2/22/00*

DATA SUMMARY FORM: INORGANICS  
 X-RAY FLUORESCENCE (XRF)  
 Test Pit Soil Samples  
 mg/kg

Sample Number	<i>TS-SED</i>																	
Sample Location	<i>11A</i>		<i>11B</i>		<i>15A</i>		<i>15B</i>		<i>18A</i>		<i>18B</i>		<i>23A</i>		<i>23B</i>			
Analyte																		
Antimony																		
Arsenic																		
Barium																		
Cadmium																		
Calcium																		
Chromium																		
Cobalt																		
Copper																		
Iron																		
Lead	<i>20.4</i>		<i>256</i>		<i>16.3</i>		<i>37.7</i>		<i>176</i>		<i>49.5</i>		<i>28.8</i>					
Manganese																		
Mercury																		
Nickel																		
Selenium																		
Silver																		
Thallium																		
Vanadium																		
Zinc																		

Note: Elevated levels of iron in samples may result in increased cobalt readings.  
 Elevated levels of lead in samples may result in increased arsenic readings.

Site Name: *EPA 125t. Drum Site*Sampling Date: *2/22/00*

DATA SUMMARY FORM: INORGANICS  
 X-RAY FLUORESCENCE (XRF)  
 Test Pit Soil Samples  
 mg/kg

Sample Number	<i>TSSED</i>													
Sample Location	<i>24A</i>		<i>24B</i>		<i>25A</i>		<i>25B</i>							
Analyte														
Antimony														
Arsenic														
Barium														
Cadmium														
Calcium														
Chromium														
Cobalt														
Copper														
Iron														
Lead	<i>104</i>		<i>80.4</i>		<i>978</i>		<i>12.7</i>							
Manganese														
Mercury														
Nickel														
Selenium														
Silver														
Thallium														
Vanadium														
Zinc														

Note: Elevated levels of iron in samples may result in increased cobalt readings.  
 Elevated levels of lead in samples may result in increased arsenic readings.

blanks

ORIGINAL

Site Name: 12 St. Drums Site

Sampling Date: 1/13/99

DATA SUMMARY FORM: INORGANICS

X-RAY FLUORESCENCE (XRF)

Test Pit Soil Samples

mg/kg

Sample Number	TS5933		TS5B12		TS5932		TS5530		TS5B11		TSB64		TSB63		TSB62	
Sample Location																
Analyte																
Antimony																
Arsenic																
Barium																
Cadmium																
Calcium																
Chromium																
Cobalt																
Copper																
Iron																
Lead	232		98.3		35.4		43.6		28,600		5140		70.7		159	
Manganese																
Mercury																
Nickel																
Selenium																
Silver																
Thallium																
Vanadium																
Zinc																

Note: Elevated levels of iron in samples may result in increased cobalt readings.

Elevated levels of lead in samples may result in increased arsenic readings.

blanks

ORIGINAL

Site Name: 1252. Drum Site

Sampling Date: 1/13/99

DATA SUMMARY FORM: INORGANICS

X-RAY FLUORESCENCE (XRF)

Test Pit Soil Samples

mg/kg

Sample Number														
Sample Location	TSSB9		TSSB1		TSSB5		TSSB8		TSSB6		TSSB7		TSSB29	
Analyte														
Antimony														
Arsenic														
Barium														
Cadmium														
Calcium														
Chromium														
Cobalt														
Copper														
Iron														
Lead	3950		41.6		2980		7760		1380		5350		75.2	1150
Manganese														
Mercury														
Nickel														
Selenium														
Silver														
Thallium														
Vanadium														
Zinc														

Note: Elevated levels of iron in samples may result in increased cobalt readings.

Elevated levels of lead in samples may result in increased arsenic readings.

Site Name: 1256. Drum Site

Sampling Date: 1/13/99

DATA SUMMARY FORM: INORGANICS  
X-RAY FLUORESCENCE (XRF)  
Test Pit Soil Samples  
mg/kg

Sample Number																
Sample Location	TSS531		TSSB10		TSFD7											
Analyte																
Antimony																
Arsenic																
Barium																
Cadmium																
Calcium																
Chromium																
Cobalt																
Copper																
Iron																
Lead	297		5010		2970											
Manganese																
Mercury																
Nickel																
Selenium																
Silver																
Thallium																
Vanadium																
Zinc																

Note: Elevated levels of iron in samples may result in increased cobalt readings.  
Elevated levels of lead in samples may result in increased arsenic readings.

Site Name: 12 SL. Drum

Sampling Date: 1/12/99

DATA SUMMARY FORM: INORGANICS

X-RAY FLUORESCENCE (XRF)

Test Pit Soil Samples

mg/kg

Sample Number														
Sample Location	TSSS16		TSSS029		TSSS018		TSSS13		TSSS14		TSSS15		TSSS023	
Analyte														
Antimony														
Arsenic														
Barium														
Cadmium														
Calcium														
Chromium														
Cobalt														
Copper														
Iron														
Lead	2970		21.1		1140		1770		1330		1670		22.9	58.3
Manganese														
Mercury														
Nickel														
Selenium														
Silver														
Thallium														
Vanadium														
Zinc														

Note: Elevated levels of iron in samples may result in increased cobalt readings.

Elevated levels of lead in samples may result in increased arsenic readings.

Site Name: 12th St. Drum

Sampling Date: 1/12/99

DATA SUMMARY FORM: INORGANICS  
X-RAY FLUORESCENCE (XRF)  
Test Pit Soil Samples  
mg/kg

Sample Number	TSSED31		TSSED23		TSSED22		TSSED32		TSSED27		TSSED12		TSSED14		TSSED30	
Analyte																
Antimony																
Arsenic																
Barium																
Cadmium																
Calcium																
Chromium																
Cobalt																
Copper																
Iron																
Lead	20.2		2990		96.3		38.5		29.0		53.8		14.9		24.5	
Manganese																
Mercury																
Nickel																
Selenium																
Silver																
Thallium																
Vanadium																
Zinc																

Note: Elevated levels of iron in samples may result in increased cobalt readings.  
Elevated levels of lead in samples may result in increased arsenic readings.



Site Name: *125th Divan*

Sampling Date: *1/12/99*

DATA SUMMARY FORM: INORGANICS  
X-RAY FLUORESCENCE (XRF)  
Test Pit Soil Samples  
mg/kg

Sample Number																
Sample Location	<i>755E026</i>		<i>755E021</i>		<i>755E19</i>											
Analyte																
Antimony																
Arsenic																
Barium																
Cadmium																
Calcium																
Chromium																
Cobalt																
Copper																
Iron																
Lead	<i>387</i>		<i>55.7</i>		<i>3480</i>											
Manganese																
Mercury																
Nickel																
Selenium																
Silver																
Thallium																
Vanadium																
Zinc																

Note: Elevated levels of iron in samples may result in increased cobalt readings.  
Elevated levels of lead in samples may result in increased arsenic readings.

Site Name: 1211 St. Dr. 400

Sampling Date: 1/12/99

DATA SUMMARY FORM: INORGANICS  
X-RAY FLUORESCENCE (XRF)  
Test Pit Soil Samples  
mg/kg

Sample Number														
Sample Location	T5520		T5526		T5525		T5527		T5517		T5524		T5521	
Analyte														
Antimony														
Arsenic														
Barium														
Cadmium														
Calcium														
Chromium														
Cobalt														
Copper														
Iron														
Lead	3140		225		3250		716		2720		2870		2090	7140
Manganese														
Mercury														
Nickel														
Selenium														
Silver														
Thallium														
Vanadium														
Zinc														

Note: Elevated levels of iron in samples may result in increased cobalt readings.  
Elevated levels of lead in samples may result in increased arsenic readings.

Site Name: 1250. Drum

Sampling Date: 1/12/99

DATA SUMMARY FORM: INORGANICS  
X-RAY FLUORESCENCE (XRF)  
Test Pit Soil Samples  
mg/kg

Sample Number														
Sample Location	TSS523		TSS52025		TSS18		TSS5034		TSPDL		TSS5024		TSS5019	
Analyte														
Antimony														
Arsenic														
Barium														
Cadmium														
Calcium														
Chromium														
Cobalt														
Copper														
Iron														
Lead	2660		2420		2240		94.3		796		463		30.8	33.9
Manganese														
Mercury														
Nickel														
Selenium														
Silver														
Thallium														
Vanadium														
Zinc														

Note: Elevated levels of iron in samples may result in increased cobalt readings.  
Elevated levels of lead in samples may result in increased arsenic readings.

## STUDY NUMBER 8505

## EXECUTIVE SUMMARY

The following summarizes the results of chronic exposure bioassays during March 2000 on soil samples provided by Roy F. Weston, Incorporated of Delran, New Jersey. Soils were evaluated using the earthworm, *Eisenia foetida*.

Station Number	ESI Suffix	Exposure (Days)	Mean Survival (%)	Significantly Different from Laboratory Control - B?
Laboratory Control - A (Artificial Soil)	-	14	74.0	-
Laboratory Control - B (Organic Compost)	-	14	93.0	-
"SS-34"	-1	14	72.0	Yes
"SS-35"	-2	14	72.0	Yes
"SS-36"	-3	14	84.0	No
"SS-37"	-4	14	85.0	No
"BG-04"	-5	14	83.0	No

Authorized Signature:

  
EnviroSystems, Incorporated3/31/2000  
Date

ORIGINAL

ATTACHMENT 3  
PHOTOGRAPH LOG

ORIGINAL

**Photograph Log**  
**12th Street Landfill Site**  
**Wilmington, New Castle Co., Delaware**



Date Taken: 12 January 2000  
Photographer: Region III SATA  
Description: SATA conducting subsurface soil sampling with hand auger.



Date Taken: 12 January 2000  
Photographer: Region III SATA  
Description: River bank in the Area of Concern, facing north.



ORIGINAL

**Photograph Log**  
**12th Street Landfill Site**  
**Wilmington, New Castle Co., Delaware**



Date Taken: 12 January 2000  
Photographer: Region III SATA  
Description: Brandywine creek mudflat during low tide facing north. SATA member is preparing to collect a sediment sample.



Date Taken: 12 January 2000  
Photographer: Region III SATA  
Description: Brandywine Creek bank with exposed drums in view.